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E-Learning in the system of the pedagogical education in Kazakhstan

KenzhebayevGabitKapezovich^a, Dalayeva Tenlik Toktarbekovna^{a*}^a*Historical Sciences, KazNPU, Dostyk Avenue, Almaty, 050010, Kazakhstan*

Abstract

Nowadays, the aim of implementation of the electronic learning system (E-learning) into educational process by 2020 is an important priority in realization of the State program of educational development in the Republic of Kazakhstan. The research of E-learning organization in system of education as the problem is based on the comparative analysis of existing experience in the world and in Kazakhstan. The situation is improved by Internet access due to the latest technologies in this sphere in Kazakhstan. In the sphere of pedagogical education the positive dynamics in creation of digital educational resources is observed. The development of digital educational resources on school disciplines for the E-learning organization at comprehensive schools is carried out during implementation of the measure plan in the State program of the educational development for 2011-2015 (1 stage) in Kazakhstan. It is necessary to start drafting a program and educational production on study programs to implement E-learning to educational process fully. Moreover, it is necessary to develop training workshops and courses for preparation and retraining an academic staff is capable to work successfully, professionally and competently in conditions of E-learning system. E-learning inculcates in the system of comprehensive school of education in Kazakhstan more successfully. The organization of E-learning in the system of Higher Pedagogical Education is carried out without coordination, mainly it is limited by the organization of distance education in the higher educational pedagogical institutions.

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1. Introduction

At the beginning of the 21st century active development and continuous updating of information space, high-

* Corresponding author. Tel.: +0-000-000-0000 ; fax: +0-000-000-0000 .
E-mail address: tenlik95@gmail.com

speed access to the latest developments in science and technology have had a dramatic impact on methods, technologies and content of training at all levels of education. The primary purpose of e-Learning technology is to ensure equal access to the best educational resources and technologies for all participants in the educational process.

In recent years the problems of e-Learning research began to be studied actively in Kazakhstan, especially before and after the adoption of the state program of e-Learning implementation in the country. The earlier studies conducted in the field of education informatization. According to Artikbayeva E.V. (2010): "We need to look for new ways to solve the problem of information and communication culture for teacher and pupil; also we need to develop the software application of educational environment. The technological development of e-Learning based on different theories of learning. E-Learning realizes through educational portals, virtual schools and etc." As for Akhmetova O.S., Issayev S.A. (2012): "E-Learning at schools and universities is knowledge-based learning integrated the use of digital technology in setting up learning environments. An e-Learning environment is one where the educational practices are partly or totally based on information and communication technology. There can be a combination of presentable and distance learning, online and offline, solitary and group learning". Mukazhanov E.B. Telebayev E.E., Takenova G.D. (2012) consider: "An important condition for the functioning of e-Learning is to ensure transparency and openness of the educational process, in accordance with best international practices and the need for the positioning of Kazakhstan in the international education rankings TIMSS, PISA, conducted the International Association for Evaluation of educational achievement". Sapargaliyev D. (2013) remarks that "We need to invite the world's leading experts for consultations and recommendations for the phase introduction of e-Learning in the educational system. Also important to note, that the successful implementation of national e-Learning project can significantly improve the quality of education in the next 10 years".

It is a priority task of widespread e-Learning introduction in the educational process by 2020 according to the State Program of Education Development of the Republic of Kazakhstan for 2011-2020 (Akorda (2011)).

Tasks of e-Learning implementing in Kazakhstan:

- Defining standards of computerization and internalization;
- Organizing an open and distance learning;
- Development, testing and dissemination of digital educational resources;
- Establishment of Kazakhstani part in the Internet;
- Organizing the technical and pedagogical support of infrastructure and software training.

The concept of e-Learning in Kazakhstan: in pre-school education- computer learning games, in secondary schools- electronic textbooks, in colleges- virtual trainers, in universities- electronic research laboratories. (G.K. Nurgalieva, (2012). The main participants in the organization of e-Learning in Kazakhstan are the association "KazRENA" (Kazakhstan Research & Education Networking Association), JSC "National Center of Informatization", JSC "National Information Technologies".

The association "KazRENA" is an association of scientific and educational network users of our Republic. This association specializes in the development and delivery of online information services for all members of the research and educational environment in Kazakhstan. "KazRENA" provides high speed Internet access to scientific and educational institutions of the Republic.

The National Center of Informatization (NCI) is an operator of the Ministry of Sciences and Education of the Republic of Kazakhstan in the area of education informatization. The core functions of the NCI:

- The informational and resource support of education informatization, the creation of national digital interactive multimedia educational resources (DIMER), the scientific basis for the design of e-Learning educational technologies' textbooks for all levels of education and their development;
- The training of teachers to the profession in terms of information;
- The monitoring of teachers in use of e-Learning editions in the learning process.

The joint stock company "National Information Technologies" develops platform for "e-Learning" and supply an equipment, and then the national training centre of teachers «Orleu» trains teachers to use e-Learning systems. The implementation of national E-Learning project is provided in two stages (first stage - 2011-2015 and the second - 2016-2020).

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