

Challenges of Digital Educational Environment

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Abstract

The article discusses the factors that effectively shape the digital learning environment. In addition, the article details the need for the digital learning environment of the education system to be a single communication space for all participants in educational relations, an effective tool for managing the quality of educational programs, teacher performance.

Keywords: digital education, ICT, cognitive, media resource, media library, e-learning.



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Introduction

The formation of a digital learning environment in the education system is an urgent need, because the school has a special task to prepare a comprehensively developed student with the necessary competencies and competencies, ready to continue education in a highly developed information society. should be.

Main part

The digital learning environment of the education system includes a set of ICT tools, the use of which should be systematic and to implement the basic education program of primary general, basic general and secondary general education to meet the requirements of the state educational standard for the formation of conditions and help to achieve learning outcomes in the subject.

In addition, the digital learning environment of the education system should be a single communication space for all participants in educational relations, an effective tool for managing the quality of educational programs, the activities of the teaching staff.

Thus, the digital learning environment of the education system is a system of effective and convenient provision of information and communication services, digital tools for the learning process, managed and dynamically developed taking into account modern trends in the modernization of education. In accordance with the requirements of state educational standards for the conditions of implementation of the educational program, the training center of the public educational institution includes:

- 1) effective management of the educational institution with the use of modern digital tools, modern financing mechanisms;
- 2) information and library centers equipped with classrooms and book deposits, with workplaces that ensure the preservation of the book fund, media library;
- 3) placement of products of students' cognitive, educational research and design activities in the educational information environment of the educational institution;
- 4) design and organization of individual and group activities, organization of their time using ICT;
- 5) planning the learning process, defining it in whole and individual stages (speeches, discussions, experiments);
- 6) information resources of the Internet in the school library, educational and artistic literature, collections of media resources in electronic media, replication equipment for reproduction of educational and methodical text-graphic and audio-video materials, creative work of students, providing access to the results of research and design work;
- 7) planning the learning process, determining its dynamics, intermediate and final results.

Therefore, the training center of the educational institution is a set of digital educational resources, technological tools of information and communication technologies: computers, other ICT equipment, communication channels, learning in a modern educational environment. is a system of modern pedagogical technologies that provides.

The main components of digital education technology are:

- 1) technical support;
- 2) software;
- 3) technical, methodological and organizational support;
- 4) coverage of the educational process in the information environment;
- 5) paper-based components.

The digital learning environment should perform the following functions:

- 1) information and methodological support of the educational process;

- 2) planning the learning process and providing it with resources;
- 3) monitoring and recording of the learning process and results;
- 4) modern procedures for creating, searching, collecting, analyzing, processing, storing and presenting information;
- 5) remote communication of all participants of the educational process (students, their parents (legal representatives), teachers, educational institutions, the public), including in the field of distance learning;
- 6) long-distance communication of the educational institution with other social sphere organizations: additional educational institutions for children, culture, health, sports, recreation, employment services, life safety.

Creating a digital learning environment in every educational institution is an important process and many factors must be taken into account.

There are a number of important aspects to consider when shaping the digital learning environment in the education system:

- a) increase the level of ICT competence of teachers in the education system;
- b) the possibility of introducing information and communication technologies in the teaching of all disciplines;
- c) the possibility of introducing information and communication technologies in the activities of educational services of public organizations and service providers;
- (g) To equip the education system;
- d) conditions of practical use of computer technologies and other digital means by all participants of educational relations;
- e) open access to information channels of the local intranet, global Internet and media resources;
- j) continuous development of the technical infrastructure of the digital learning environment.

The process of shaping the digital learning environment of the education system can be divided into several stages:

- 1) Organizational phase
- 2) The stage of shaping the digital learning environment
- 3) Analytical phase

In conclusion, it should be noted that the formation of a digital learning environment in the future will modernize the educational process, the introduction of e-learning technologies, mixed learning models in pedagogical practice, automation of educational quality management processes, 'It will become a system that enables students to develop learning skills in the digital world, the ability and availability to create digital projects for their future careers.

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