



THE ROLE AND IMPORTANCE OF ELECTRONIC TEXTBOOKS IN THE DIGITAL EDUCATIONAL ENVIRONMENT

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ABOUT ARTICLE

Key words: Independent learning, digital textbooks, E-MINBAR, websites, web technologies, cloud technologies, email, electronic libraries, virtual web server.

Abstract: This article presents ideas and observations about the advantages, role, and importance of using digital textbooks (websites) in education.

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INTRODUCTION

The positive changes and achievements that are currently taking place in all areas cannot be imagined without digital technologies. Using digital technologies in the process of providing knowledge is aimed at improving the quality and efficiency of education. Digital technologies are used in education for the following purposes:

Digital technologies (computers) as an object of study;

as technical means of teaching;

preparing and managing digital educational content;

used in scientific and pedagogical research.

In our country, great attention is paid to the widespread use of digital technologies in education, creating opportunities for students to remotely monitor their knowledge and independently study subjects. In this regard, the Decree of the President of the Republic of Uzbekistan No. PF-5847 dated October 8, 2019, sets out priority tasks such as "implementing the "E-MINBAR" platform, which creates the opportunity to observe and master lectures, practical, laboratory exercises online and upload them to electronic information storage devices, using cloud and digital technologies in educational processes, accelerating the creation of national digital textbooks, and gradually increasing and improving the share of digital textbooks."

Taking into account the above tasks, there is a need to create and widely implement digital textbooks in teaching subjects, as well as to develop students' skills in independently using digital textbooks with wide capabilities.

One of the most common and growing types of digital textbooks is a digital educational website. A website is a collection of web pages interconnected by links hosted on a single server and providing interactive services to users.

A digital learning site is defined as the content of a physical or virtual web server, the main purpose of which is to support the learning process [2];

educational objectives information resource implemented through web technologies;

It consists of a collection of web pages that have a design, provide a purposeful educational and training process, are unified in meaning, are oriented and physically located on a single server, and create a wide range of opportunities for independent learning, along with controlling their users[3].

Digital educational sites hosted on the network contain all the necessary information for the educational process.

The advantages of digital websites include:

simplicity and ease of navigation between pages of a digital website;

The information provided is easy to understand and clear;

the ability to place more information on digital websites;

High efficiency (operationality) and low cost for updating information;

the possibility of providing constant feedback to site visitors.

Using special technologies reflected in e-mail and the web, it allows students to complete laboratory and practical work remotely, and includes the ability for teachers to remotely monitor student activity and check the level of knowledge.

The content of digital educational sites, along with information about the educational organization, also includes information about the educational process of students, educational methodological support, which is constantly updated taking into account the requirements and needs of users. The content of educational sites, along with information about the organization of education, also includes information about the educational process of students, which is constantly updated taking into account the requirements and needs of users.

Examples of digital educational sites include the personal websites of scientists E.V. Bugrovskaya, A.V. Khutorskoy, T.P. Yashina and others.

Digital educational sites are sites of scientists, teachers, teachers of higher and secondary schools, methodologists, aimed at studying a particular subject, which provide Internet users with materials that are important for educational purposes [4]. On such sites, authors place their scientific and educational methodological developments, working programs of subjects, study guides, digital textbooks, electronic educational methodological complexes of subjects, methodological assignments for practical and laboratory work, information for independent preparation for the exam in the subject, links to electronic libraries, educational portals and other electronic educational resources.

Digital educational sites and textbooks are one of the most convenient tools for organizing students' independent work, monitoring their activities, and creating ample opportunities for students to learn independently. By implementing digital sites, students will not only get acquainted with the necessary teaching and methodological materials and digital educational resources, but also have the opportunity to spend their free time meaningfully and independently master subjects, complete and submit assignments on time.

Analysis of the functional capabilities of the elements of the electronic resource complex allows students to systematically form excellent (thorough) and meaningful scientific and professional knowledge, skills in working with information technologies, create their own system of independent

perception and critical thinking, develop knowledge and skills, and develop the ability to work independently on themselves[5].

When using digital textbooks to develop independent learning skills, students not only independently master ready-made ideas and concepts, but also have the opportunity to draw their own conclusions using various facts, information, and imagination.

Each element of the digital textbook complex has its own advantages and disadvantages, as well as the possibilities of their use and application, therefore, their integration and integrated use in the independent educational activities of future engineers is the most important way to improve the level of their independent learning skills.

The time itself demands the creation of a national digital textbook information educational environment (resource) in higher educational institutions, which is understood as a set of tools that ensure and control the mastering of educational programs by students under the supervision of a teacher based on digital textbook resources, information and telecommunication technologies. The implementation of an electronic information educational environment in higher educational institutions is primarily determined by its electronic resources, their qualitative characteristics, and the quality of independent educational activities of future engineers.

CONCLUSION

In conclusion, the role of digital textbooks in improving the quality and efficiency of teaching in higher education institutions, developing students' knowledge and skills, and forming independent learning skills is incomparable. The use of web technologies in creating digital textbooks creates many opportunities: expanding the audience of learners, dividing students into groups according to their level of knowledge, giving assignments, working separately with gifted students, providing information taking into account the wishes of users, conducting classes at arbitrary intervals, and much more.

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