

ROLE OF DIGITAL TRANSFORMATION IN SCIENCE TEACHING

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Abstract. The article is devoted to the place of digital transformation in the teaching of subjects, and the problems of teaching Russian language and literature using digital technology are presented.

Key words: digital technology, mobile device, Russian language, digital transformation, educational process.

FANLARNI O‘QITISHDA RAQAMLI TRANSFORMATSIYANING O‘RNI

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Аннотация. Мақола fanlarni o‘qitishda raqamli transformatsiyaning o‘rniga bag‘ishlangan bo‘lib, raqamli texnologiyadan rus tili va adabiyoti fanini o‘qitishdagi muammolari keltirilgan.
Калит so‘zlar: raqamli texnologiya, mobil qurilma, rus tili, raqamli transformatsiya, oquv jarayoni.

Абстрактный. Статья посвящена месту цифровой трансформации в преподавании предметов, представлены проблемы преподавания русского языка и литературы с использованием цифровых технологий.

Ключевые слова: цифровые технологии, мобильное устройство, русский язык, цифровая трансформация, образовательный процесс.

Nowadays, digital technologies play a very important role in the modern world. The development of digital technology is observed in various areas of people and society, including the increasingly active penetration of digital tools into mobile devices and social networks. Systematization of knowledge about the role of the Russian language in the digital environment, identification of the main ones and its development in the conditions of digital transformation is the demand of the times.



Understanding the processes that occur with language in modern conditions, including learning the Russian language, remains especially relevant and important in the context of digital transformation.

Digital transformation has a significant impact on learning and teaching the Russian language, and recently the culture of using the Internet environment is increasing. Therefore, it is important to identify and analyze possible problems in this matter, to determine the prospects for the development of the Russian language in the era of digitization.

In our opinion, the main problem of digital transformation is to overcome obstacles in the creation of textbooks during deep changes in the education system. In our opinion, among the main problems of digital transformation, we should pay attention to the following:

- the need to spend large amounts of money on modernization and redesign of new projects;
- inability to integrate different IT systems;
- the impossibility of developing solutions based on artificial intelligence;
- Replication of information between IT systems, etc.

According to the analysis of recent years, it has become clear that the number of Internet users and activity in social networks in the Russian language occupies one of the leading positions. Users use the Russian language to create, distribute, exchange and communicate information in the electronic environment. This process increases the storage capacity of the Russian language in the electronic environment and allows it to develop as a language. The development of digital technologies has a significant impact on the improvement of the educational environment, including the process of learning languages such as Russian. From this point of view, e-textbooks, online courses, mobile applications and other digital tools have become increasingly popular among teachers and students in recent years.

If we dwell on the issue of working with data, here we see the following:

- data collection policies and regulations are poorly developed and poorly implemented in the educational process;
- employees are not adequately trained on why and how to work with data;
- the inventory of data and their sources was not conducted at the required level;
- there is little canonical data model for modeling scenarios to use available data;
- the quality criteria are not set at the required level, and the work on checking the compliance of the data with the criteria is being carried out slowly.

If we look at the integration of the Russian language into digital education platforms, this language is an actively integrated platform for various digital education, enabling communication for foreign students and promoting intercultural exchange. Russian-language platforms also help to promote international educational platforms, as a result of which Russian culture and history expand globally, which increases interest in learning the Russian language. E-learning platforms play an important role in learning and promoting the Russian language, including:

- independent work using a personal computer, mobile phone, DVD player, television and other electronic materials;
- possibility to receive advice, assessment, remote interaction from a remote (regional) expert (teacher);
- to create a distributed community of users (social networks) leading the general virtual educational activity;



- delivery of e-learning materials on time day and night; standards and specifications for electronic educational materials and technologies, distance learning tools;
- formation and improvement of information culture among the heads of all enterprises and divisions within the group and increase the efficiency of their acquisition of modern information technologies;
- development and popularization of innovative pedagogical technologies, transferring them to teachers;
- increase the ability to develop educational web resources;
- the ability to obtain modern knowledge at any time and anywhere in the world;
- access to higher education for persons with special needs of psychophysical development.

Recently, the electronic education system in the Russian language has developed and is distinguished by the following advantages over traditional education:

- Freedom of access;
- Low educational costs;
- Adaptability of education;
- The breadth of opportunities for development over time;
- Availability of potential equal educational opportunities;
- Well-developed knowledge assessment criteria and transparency of the level of its teaching.

The prospects for the development of the Russian language in the era of digital transformation are closely related to the development of machine translation, automatic text processing, voice assistants and other language technologies and services.

Problems of preservation and development of the Russian language in electronic form:

- Spelling and grammar issues;
- Stylistic problems in the electronic environment;
- Lexical problems in the electronic environment;
- The impact of globalization and its interaction with the English-speaking environment;
- Solving the problems and strategies of developing the Russian language in electronic form.

Technological solutions also help to improve handling of electronic spelling and grammatical errors and solving situations in the environment. The question of the use of automatic checks of text editors, improvement of exchange services, adherence to the rules of spelling and grammar established in the program, and the use of opportunities that help users identify and correct their mistakes remains relevant.

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