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Technologization of Education as a Factor Of Digitalization of the Country's Economy

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Keywords: education, psychological and pedagogical characteristics, ergonomic characteristics, software and technical characteristics, technologization, level of education, academic discipline/subject, form of implementation, digitalization, economics.

Abstract: The article is devoted to the technologization of education based on the introduction of unique electronic educational resources (EER) into education that meet the requirements of novelty, as well as those of high quality in terms of psychological, pedagogical, ergonomic, and software-technical characteristics. The introduction of EER into education is accompanied by the development of advanced pedagogical, methodological and didactic techniques, which positively affects the quality of education in general. The electronic resources registered in the United Fund of Electronic Resources "Science and Education" of the first quarter of this year were used as the subject of the research.

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1 INTRODUCTION

In the context of modern economic and technological challenges, digitalization is becoming a key area of development for states. The introduction of digital and information and communication technologies in various spheres of life helps to reduce the cost of government and commercial services, increase the availability of goods and services, simplify access to global markets and accelerate product development in accordance with new user expectations and needs.

Of particular importance in this process is the education system, which should be focused on achieving the technological sovereignty of the country. Technological sovereignty is the ability of a State to independently develop, manufacture, and control key technologies and infrastructure necessary for economic independence and national security.

2 THE PURPOSE OF THE STUDY

Technologization of education is a field of pedagogical science that explores patterns and principles, optimal ways and means to effectively achieve educational goals based on a technological approach to the learning process and the development of students.

In the context of the modernization of higher education, which is being carried out in the context of the rejection of the Bologna education system, the technologization of the educational process is becoming particularly relevant. Electronic educational resources (EER) are becoming one of the means to effectively achieve educational goals.

The purpose of the study is to determine the patterns of the impact of the introduction of electronic educational resources as a means of technologizing education on the quality of education and the training of specialists for a digital state with a digital economy.

3 THE RESULTS OF THE STUDY

Over the past quarter, 51 sets of documents for electronic resources were reviewed and analyzed in terms of the novelty of the resources submitted for registration and the quality of the documents accompanying them. According to the results of the review, 21 electronic resources were allowed to be registered, of which 19 were registered by the following authors:

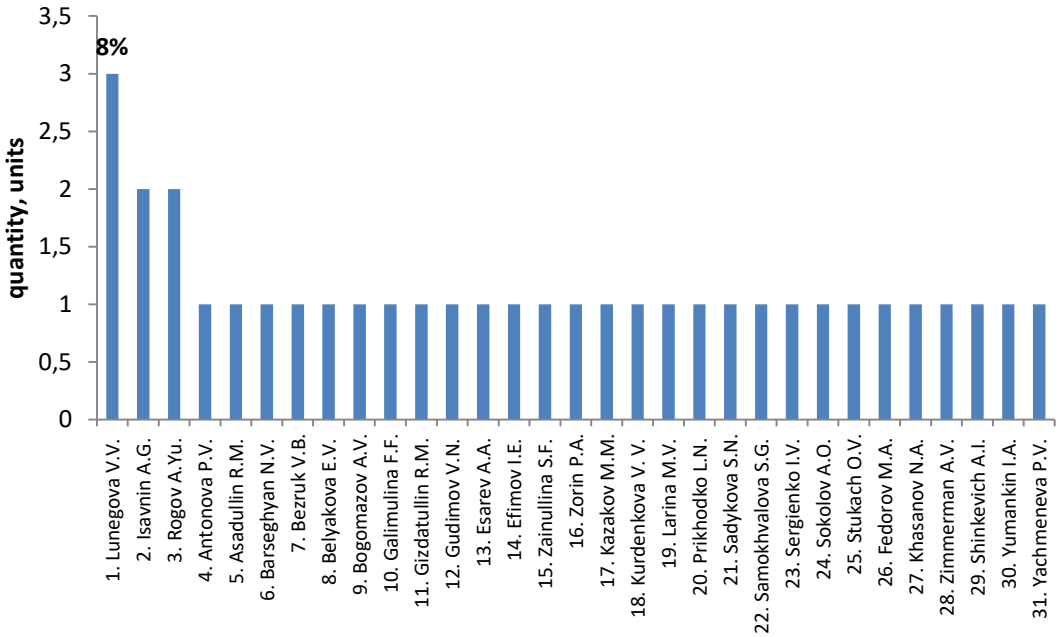

Figure 1: Distribution of electronic resources by authors.

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The analysis of EER on a form-functional basis revealed the following distribution into pools: the dominant representation of electronic educational resources based on the results of educational and research work indicates a close integration of educational and scientific processes:

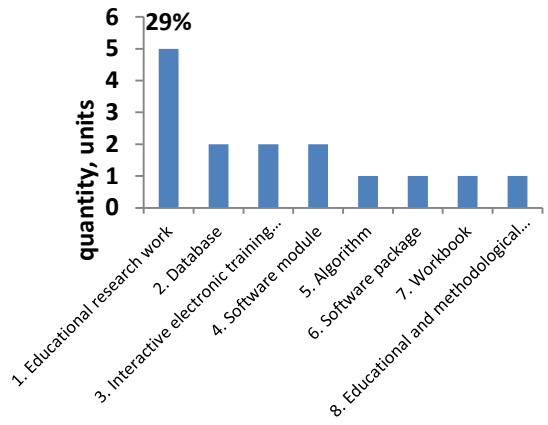

Figure 2: Distribution of electronic resources by forms of implementation.

The distribution of electronic resources by academic subjects/disciplines demonstrates that in the first quarter, materials intended for natural science disciplines are most popular among EER. The discipline of Computer Science and Information Technology is the leader in this category:

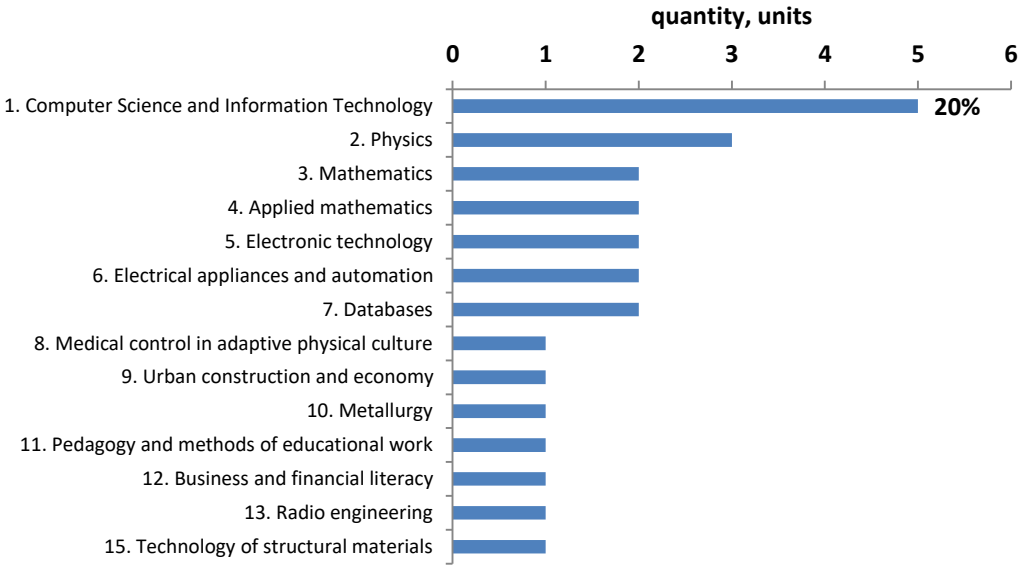

Figure 3**:** Distribution of electronic educational resources by academic subjects/disciplines.

As the study demonstrates, full-time teaching of these academic disciplines prevails:

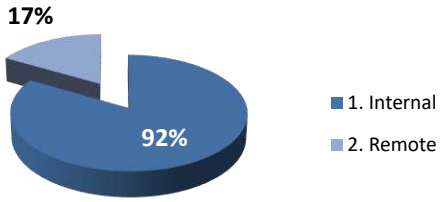

Figure 4: Distribution of electronic educational resources by forms of education.

The technologization of the educational process is based on the introduction of electronic educational resources (EER), the creation of which, in turn, relies on the technologization of their development tools.

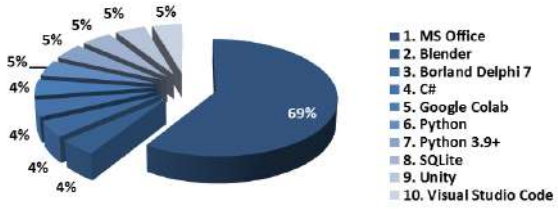

Figure 5: Distribution of electronic educational resources by their development tools.

Modern technologies play a key role in the learning process, providing access to high-quality and diverse electronic educational resources (EER). These resources, created with the help of specialized development tools, increase the effectiveness of learning, make it more interactive and adapted to the needs of students. The analysis shows that the introduction of electronic educational resources contributes to improving the accessibility and quality of education, as well as its adaptation to modern labor market requirements.

4 CONCLUSIONS

Thus, the technologization of education is an important factor in the digitalization of the country's economy. The introduction of electronic educational resources helps to increase the scientific validity and relevance of educational content, as well as its compliance with the needs of the labor market.

This, in turn, contributes to the formation of technological sovereignty and the strengthening of the country's position at the global level. Further research in this area will make it possible to determine the most effective forms and methods of using ESM in the educational process, as well as develop recommendations for their implementation in the education system.

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1. The portal of the United Fund of Electronic Resources "Science and Education" (OFERNiO). Access mode: https://ofernio.ru . Date of access 03/27/2025

2. OFERNiO database. Access mode: https://ofernio.ru/program/ofapis_bd/index.html. Date of access: 03/27/2025

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