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The Role and Importance of Digital Management in Education

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A B S T R A C T
This article lists the advantages and stages of introducing digital management for the development of the school education system. In addition, the form and methods of the modern school management system in developed countries are analyzed. At the same time, the results and statistical indicators of schools in Uzbekistan and developed countries are compared and comments are made on their overall results.

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Introduction.

In accordance with the Decree of the President of the Republic of Uzbekistan No. PF-158 dated September 11, 2023, in the process of implementing the New Uzbekistan Development Strategy, the "Uzbekistan-2030" strategy was developed, which set out the tasks of reforming the education system and bringing secondary schools to a new level. Also, based on the "Digital Uzbekistan-2030" program, work has been organized on the digital transformation of the school and preschool education system and the introduction of innovative curricula on new technologies, as well as the digitization of schools. In recent years, digital technologies have been deeply penetrating every sphere in our country. The education sector is no exception. As an example, we can cite electronic journals and diaries, online educational platforms, and databases. In addition, the Massive Open Online Courses (MOOC) system (launched in 2008) has been proving its potential for global dissemination of education.

By 2015, great attention began to be paid to the digitalization of the education system in our country. Schools began to actively use electronic textbooks, interactive platforms, and electronic resources. In 2022, the Presidential Decree "On Approval of the National Program for the Development of School Education for 2022-2026" was approved, and a number of works were carried out to digitize the education system.

Research and methods.

Currently, the education systems of developing countries such as Estonia, Norway, Belgium, Malaysia, Singapore, Germany, and others are being digitized. For example, in Germany, all schools are being transferred to the Skolengo system. This program is aimed at standardizing the school management system, simplifying information exchange and helping to effectively manage schools. This system consists of various modules, which each educational institution can choose according to its needs, and

user data is protected.

Today, digital systems have been introduced in all schools.

In particular:

Electronic journal and diary - Student attendance, grades, and homework are maintained electronically, which allows parents and teachers to receive information in real time.

Online learning platforms - Distance learning opportunities are expanding, students and teachers have the opportunity to use online lessons, webinars, and other educational resources.

Database and analysis - Data is collected and analyzed on student learning, teacher effectiveness, and other indicators. This helps in making decisions to improve the quality of education.

The development of the e-learning system and the integration of innovations into the education system have been analyzed by many researchers.

M. I. Tursunov (2021) - Tursunov's scientific work studies the impact of innovative technologies on increasing the efficiency of the management system in educational institutions. It also analyzes how the introduction of digital technologies into education contributes to the optimization of pedagogical processes and the introduction of advanced systems in management.

Sh. B. Omonov (2019) - Omonov's scientific research analyzes the impact of electronic educational materials on the effectiveness of educational management.

Result and discussion.

These analyzes show that the digitalization of the management system in education contributes to the development and transparency of the system.

In Uzbekistan, international educational organizations with many years of experience are being involved in improving the management system of schools. In particular, cooperation with the international educational organization Cognia.Inc (USA) has been established (2024). Cognia, an international education organization from the United States, currently covers more than 25 million students and more than 1 million teachers in about 80 countries, serving more than 36,000 educational institutions. This organization provides high-quality professional services in school accreditation, certification, evaluation, research, improving the quality of education, providing quality educational resources, digitizing school management, and providing teachers with an online platform and offline to improve their professional skills and qualifications. The use of innovative electronic resources not only optimizes the management system, but also improves the quality of education. For example, in 2019, an Electronic Diary system was introduced in a number of schools in Tashkent. As a result, the level of student learning increased by about 15%. Digital and electronic resources are also cheaper, more convenient, and more reusable than traditional educational tools. For example, after the use of digital textbooks in educational institutions began in 2020, printing costs decreased by up to 25%. Of course, this provides financial savings.

Indicators after the introduction of electronic resources

Indicator	Before Implementation	Joriy etilgandan keyin	After Implementation Change
Student Acquisition	65 %	82%	+26%
Interest in the Learning Process	Medium	High	+35%
Monitoring Efficiency	Low	High	+40%
Paper Usage	High	Low	-50%

The quality of education can be improved and simplified by digitizing the management system.

At the same time, there are several problems in the digitization of educational management. For example, the lack of technical infrastructure. Some educational institutions have limited access to modern computers and the Internet. For the effective use of electronic resources, it is necessary to improve the skills of teachers and administrative staff. In addition, there is a need for software to implement a high-quality electronic system.

In conclusion, it can be said that the digitization of the management system of educational institutions increases the quality of education and contributes to the effective organization of the system. The development of electronic resources creates a wide range of opportunities for students to receive independent education, which increases their interest in the learning process. It allows automating the management process, creating the possibility of distance learning, improving the skills of teachers and familiarizing themselves with modern educational achievements, conducting statistical analyses and using them to make decisions, and effectively using resources.

List of used literatures:

1. UNESCO Institute for Statistics. (2022). *Education and digital governance: Towards better data management systems*. Montreal: UIS. https://uis.unesco.org
2. OECD. (2023). *Education at a Glance: OECD Indicators*. OECD Publishing. https://www.oecd.org/education/education-at-a-glance/
3. IMS Global Learning Consortium. (2020). *Standards for Learning Data Interoperability*. https://www.imsglobal.org
4. ISO/IEC. (2005). *ISO/IEC 19796-1: Information technology—Learning, education and training—Quality management*. Geneva: International Organization for Standardization.
5. UNICEF. (2022). *Digital Learning and Governance in Education Systems: A Global Perspective*. New York: UNICEF. https://www.unicef.org/education
6. O‘zbekiston Respublikasi Oliy ta’lim, fan va innovatsiyalar vazirligi. (2023). *Raqamli ta’lim tizimi va EMIS platformasi haqida hisobot*. Toshkent: Oliy ta’lim vazirligi. https://edu.uz
7. Mamatqulov, A. (2023). *Ta’limda raqamli texnologiyalarni boshqarishning huquqiy va metodik asoslari*. “Ta’lim va innovatsion tadqiqotlar” jurnali, 4(1), 25–33.
8. Xatamkulov, Xasanova, M (2024) *Ta’lim muassasalarining boshqaruv tizimida innovatsion elektron o‘quv resurslarini joriy etishning samaralari.* “Kokand University Herald” jurnali, 242-246