

PROSPECTS OF DIGITAL SCHOOL TEXTBOOKS IN UZBEKISTAN

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Annotation

the future prospects of creating digital school textbooks in Uzbekistan were discussed and recommendations were made regarding its organization.

Аннотация

обсуждены будущие перспективы создания цифровых школьных учебников в Узбекистане и даны рекомендации по их организации.

Annotatsiya

maqolada O'zbekistonda raqamli maktab darsliklarini yaratishning kelajak istiqbollari haqida fikr yuritilib, uni tashkil etish yuzasidan tavsiyalar berilgan.

Kalit so'zlar

raqamli maktab, raqamli darslik, elektron o'qitish, kundaliklarini raqamlashtirish, elektron materiallar, videodarslik.

Ключевые слова

цифровая школа, цифровой учебник, электронное образование, оцифровка дневников, электронные материалы, видеоучебник

Key words

digital school, digital textbook, electronic education, digitization of diaries, electronic materials, video textbook

On the state program of the President of the Republic of Uzbekistan "On the implementation of the Strategy of Actions on the five priority areas of development of the Republic of Uzbekistan in 2017-2021 in the "Year of Development of Science, Enlightenment and Digital Economy" 2020 Within the framework of the Decree of the President of the Republic of Uzbekistan No. PF-5953 dated March 2, a number of works were successfully carried out by the Ministry of Information Technologies and Communications Development and the Decree of the President of the Republic of Uzbekistan No. PF-60 dated 28.01.2022 "For 2022 - 2026 These works are being carried out on a large scale with regard to the Decree on the Development Strategy of New Uzbekistan.

In particular, the Ministry of Public Education of the Republic of Uzbekistan, together with the Ministry of Information Technology and Communications Development, within the framework of the "Five Initiatives" project on youth education and women's employment, starting from September 1, 2020, will train children in school subjects in separate general education institutions. on e-learning, including e-class journal, digitization of students' diaries and electronic materials library (textbooks, video lessons, virtual laboratories, etc.) was assigned the task of implementation, and the tasks in this regard were also introduced into the system at the level of requirements.

In order to enrich education with suitable digital resources, video tutorials were developed as part of the third initiative. 80 online video tutorials (on robotics, programming basics, computer graphics and mobile application creation) have been developed for young people to learn ICT remotely. Effective use of technologies is necessary to improve and develop the quality of education. An educated generation, professional personnel are the guarantee of the development of society on a large scale. South Korea and the USA, which have the most advanced education systems in the world, have already moved to the digital education system we are talking about. In particular, South Korea has developed a "Smart Education" strategy for the transition to this system. it allows to leave behind and discover the world outside the classroom", - said Ju-Ho Lee, Minister of Education, Science and Technology of South Korea.

Another convenience of the new system is that this system provides an opportunity for pupils and students to choose subjects and study from home in rural areas of our republic where there is a lack of specialist teachers. South Korea ranks second in the world in terms of reading, fourth in mathematics and fifth in science.

In 1945, 78 percent of the country's population was illiterate, but now South Korea has surpassed all European countries and the United States. This, of course, indicates that Korea has chosen the right direction in terms of the education system.

We can see from the example above that the introduction of these technologies into the educational system is more important than the introduction into other areas. The earlier we introduce the next generation to the IT environment, the faster they will adapt to it. Because, experts say, in the coming years, the world will witness the emergence of a "digital divide" between those who can use new information technologies and those who cannot.

It is known that in Uzbekistan, which is developing on all fronts, in the teaching of primary education subjects, updating the material and technical base of

general secondary schools, as well as modernizing the general secondary education educational process implementation of information technologies and "Electronic education" in 2020-2025, the development of the future trajectory of innovative development and the technological road map is being carried out. This will serve as a priority for improving the living standards of our people, especially for students and young people who are hungry for knowledge, and for them to become mature specialists.

When designing what digital textbooks will look like, many aspects are first studied, that is, research is carried out on teaching it. As a result, the created textbooks are directed to be interesting, easy, memorable and harmless in the process of learning. A single page can contain both textual and audio explanations, videos and 3D animations at the same time. According to the results of the research, 80% of the participants can remember the information because such textbooks are virtual, multi-format and interactive.

When it comes to the projects "Digital School", "Electronic Education" and "Digital Textbook", first of all, it is necessary to pay special attention to the problems that may arise in using them. After all, the educational system is not a testing ground for risk taking.

The implementation of these projects in the conditions of Uzbekistan creates the following facilities and opportunities for the educational system:

For the state: an opportunity to save budget funds from publication costs. This is a big order for electronics manufacturers.

For developers: the ability to create new programs and improve their products, thereby guaranteeing the development of the IT industry. For the learning process: fun, efficiency, ease.

For learners: easy-to-learn, engaging learning that's available anywhere, anytime.

For teachers: ease of work without red tape, without reducing the quality of education.

At the same time, switching to the system requires a number of special conditions:

Availability of the material and technical base necessary for the use of this system in educational institutions and educational participants.

In order to switch to the system, the availability of ICT and skills of teachers and parents working in the field to use this electronic system, or if necessary, the development of courses and instructions for them to use this system.

Information security and strong ideological immunity of the process participants.

The electronic textbook "is able to break the boundaries between formal and informal environments, institutional and independent learning, and traditional educational and economic organizations." Electronic didactic tools are a resource capable of collecting, describing, updating information, presenting knowledge in an interactive way, and controlling it based on modern information technologies. Electronic didactic tools should serve to expand students' imagination and develop their initial knowledge¹⁶.

International experiences show that the implementation of the communicative information-educational environment in practice leads to a positive pedagogical result. Electronic, informational and didactic tools are the main form of organizing joint educational activities of students from different cities, regions and countries in the network.

Therefore, approaches to education and training using information and communication technologies occupy one of the main places in most scientific researches and government programs. The implementation of information technologies in the continuous pedagogical education system is implemented on a large scale from year to year. A large number of information resources are being developed by scientific and pedagogical staff in the process of information. But these jobs are not yet in demand.

Creating an information-educational environment is an objective result of the development of the process of informatization in education. The goal of informatization of education is global acceleration of intellectual activity due to the involvement and application of information and communication technologies¹⁷.

As a conclusion, it can be noted that within the framework of solving these problems, it is necessary to conduct research aimed at the development of the pedagogical, methodological and technological foundations of combining modern textbooks, teaching-methodical complexes and electronic didactic tools into one system.

¹⁶ Jesús Rodríguez Rodríguez, Tânia Braga Garcia, Eric Bruillard. IARTEM (International Association for Research on Textbooks and Educational Media) 1991-2016. 25 years developing textbook and educational media research. France – 2019. 387-410.

¹⁷ Inoyatov U. Zamonaviy darsliklar, o'quv-metodik majmualar, elektron didaktik vositalarni ishlab chiqishga innovatsion yondashuv dolzarb ijtimoiy-pedagogik muammo // Xalq ta'limi. – Toshkent, 2018. – №3. – B.12-13.

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