



WAYS TO USE DIGITAL TECHNOLOGIES IN MODERN EDUCATION AND INCREASE DIGITAL LITERACY

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Abstract

In this article, the measures for the approval of the "Digital Uzbekistan - 2030" strategy and its effective implementation, the use of digital technologies in various fields, the measures that can be applied and implemented in this system, the measures to increase the digital literacy of the population and the formation of the skills of using digital technologies in education, the development of the ability to use the Internet, and thus the improvement of the education system are covered based on analytical opinions.

Keywords: Digital technologies, "Digital Uzbekistan-2030" strategy, IT park, digital industry, information technologies, digital technologies, digital literacy, internet literacy, digital industry, digital education, information technologies

INTRODUCTION

Complex measures are being implemented in our country for the active development of the digital economy, the widespread introduction of modern information and communication technologies in all sectors and areas, first of all, in public administration, education, health care and agriculture. In particular, the implementation of more than 220 priority projects aimed at improving the electronic government system, further developing the local market of software products and information technologies, establishing IT parks in all regions of the republic, as well as providing the sector with qualified personnel has begun. In addition, the comprehensive program "Digital Tashkent" is being implemented, which envisages the launch of a geoportal integrated with more than 40



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information systems, the creation of an information system for the management of public transport and communal infrastructure, digitization of the social sphere, and the subsequent implementation of this experience in other regions.

MAIN PART

In order to ensure the rapid development of the digital industry in the republic, increase the competitiveness of the national economic sectors, as well as the implementation of the strategy of actions in the five priority directions of the development of the Republic of Uzbekistan in 2017-2021 in the "Year of Science, Enlightenment and the Development of the Digital Economy", the Ministry of Information Technologies and Communications, interested ministries and agencies, representatives of the business community and scientific circles, as well as foreign experts with the participation of "Digital Uzbekistan - 2030" strategy has been developed. In 2020-2022, as part of the digital transformation of regions and networks, the level of connecting settlements to the Internet network, including increasing the number of broadband connection ports to 2.5 million, from 78 percent to 95 percent through the construction of 20 thousand kilometers of optical fiber communication lines and the development of mobile communication networks, the introduction of more than 400 information systems, electronic services and other software products in various areas of socio-economic development of the regions, 587 thousand people, that's it among them, within the framework of the "One million programmers" project, organizing training in the basics of computer programming by covering 500,000 young people, introducing more than 280 information systems and software products for the automation of management, production and logistics processes in enterprises in the real sector of the economy, improving the digital literacy and skills of governors, state bodies and employees in the regions, training them in information technology and information security, and 12 thousand of them will be attached employee information training and other goals in the field of technologies are advanced.



RESULTS

A coordinating commission for the implementation of the "Digital Uzbekistan - 2030" strategy was formed, and its main tasks are to ensure the full implementation of the projects and measures provided for in the Strategy, regions and networks digital transformation programs, "roadmaps" by state bodies and organizations, local executive authorities, as well as systematic control of their timely implementation, monthly meetings of the heads of state bodies and organizations on the digital economy and electronic planned government development projects and listening to their reports on the implementation of measures and considering their responsibility, further improving the provision of electronic state services based on constant monitoring, taking measures to optimize functional processes and procedures in the activities of state bodies and organizations, considering new projects in the field of digital economy and making decisions on their implementation, as well as, in necessary cases, on the basis of programs for the digital transformation of regions and networks, and on the basis of "roadmaps" prepared and agreed project documents change and additions, approval of the list of information systems and resources of state and economic management bodies to be placed in the data processing center of the "Electronic Government" system based on the proposal of the Ministry of Information Technologies and Communications Development, and systematic monitoring of their activities based on this list. At this point, it is determined that the Coordination Commission of the Ministry of Digital Technologies will act as a working body.

Another of the measures taken is to take measures to complete the digitalization of pre-school and general education schools and health care institutions by the end of 2020 with the Ministry of Information Technology and Communications Development, the Ministry of Preschool Education, the Ministry of Public Education and the Ministry of Health, assuming the creation of IT infrastructure in 13 sample districts, equipping them with computer equipment, as well as the introduction of information systems and it is determined to organize the training of responsible employees. It was also determined that the digitization of these institutions is planned to be carried out at the expense of the Ministry of Information Technologies and Communications Development and organizations



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under its control, and in the missing part - at the expense of additional sources of the local budget.

The Ministry of Investments and Foreign Trade, together with the Ministry of Information Technologies and Communications Development, plans to allocate not less than 5 percent of the total amount of investment projects and the funds of international financial institutions, foreign government financial organizations and donor countries involved from November 1, 2020 to "digital" components.

Starting from January 1, 2021, as part of the "Digital Tashkent" complex program, his personal cabinet was formed to establish mutual electronic relations with state bodies and organizations when issuing an identification ID card to an individual. Starting from July 1, 2021, the Open Data Portal of the Republic of Uzbekistan will ensure that state bodies and organizations will post online statistical data on state procurement, registration of patents, medicines and medical supplies, public transport traffic, use of land resources, and other public information.

Increasing the digital literacy of the population and forming the skills to use technologies have become the main requirements and criteria of today's modern world. A simple example is the ability to use the Internet. According to some studies, as of January of this year, there are 26.74 million Internet users and 5.35 million social network users in our country, which is 20% of the total Internet users. This means that the number of Internet users is almost 75% of the total population, but only 15% of the population can use social networks, one of the most common skills of today. In this regard, the issue of developing digital literacy and information culture of the population remains especially relevant. For these purposes, the activities of digital technology training centers were gradually launched in all districts (cities) of the republic.

DISCUSSION

Today, about 400 new jobs have been created in 205 digital technology training centers across the country, and in 2022, more than 144,000 trainees, including 29,000 state employees and 115,000 youth, will be trained. During 2023, a total of 180,000 young people and employees are planned to be trained in the field of IT in these centers. In addition, educational organizations, mass media and other resources have organized media literacy classes and information for the purpose



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of preventing and avoiding cybercrimes observed in the digital space. As a result of these activities, necessary skills aimed at preventing phishing and other cybercrimes are being formed among the population, starting with not giving digital personal data to third parties. At the same time, one of the most important conditions for the successful implementation of the "Digital Uzbekistan - 2030" strategy is to increase the digital literacy of the population. In particular, according to the Strategy, by providing 100 percent computer classes to state pre-school educational organizations, the formation of primary computer literacy skills is underway.

In order to promote digital literacy among young people and to attract them to the computer programming and IT industry, the "One Million Developers" project was introduced, and within the framework of this project, programming languages were taught to young people. Within the framework of the "One Million Programmer" project, a comprehensive program of measures aimed at identifying, training and providing employment to young people interested in the field of free training of young people in the basics of computer programming in 2021-2022 was approved.

Currently, more than 2.5 million users have registered within the "One Million Programmer" project, of which more than 1.7 million participants have received training and graduate certificates within the project. At the same time, a preferential loan in the amount of 8.2 million soums for the purchase of a computer was introduced to young people who obtained an IT certificate within the framework of "One million programmers" and educational residents of the IT-Park to their personal plastic cards. In order to implement the logical next stage of the "One million programmers" project, an opportunity was created for young people to get an education in "Coursera" online courses through the Uzbekcoders platform. In 2023-2024, licenses will be obtained for 10,000 professional courses that provide access to all the content of the platform. During 2023-2025, 1.2 million young people will be trained in online courses in 8 areas. It should be noted that in 2019-2022, more than 1 million people acquired basic knowledge of digitization and obtained certificates within the framework of the "One Million Uzbek Programmers" project.



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Digital literacy is a set of knowledge, skills and abilities necessary for life in the modern world, for safe and effective use of digital technologies and Internet resources. As a result of the comprehensive work on the formation of the necessary knowledge and skills, the foundation is being built for the interest in the IT field and becoming the owners of this profession in the future. At the same time, the culture of correct use of digital platforms is being promoted among the population as a result of the work being carried out. In this situation, digital literacy serves as an important barrier for cybercriminals and a way to reduce crime on the Internet.

In recent years, a number of works have been carried out to improve the digital literacy of the population in our country. Digital training centers of the IT park have been launched in 205 districts and cities to improve the digital literacy of the population and employees of state and economic management. With their support, more than 100,000 students were trained in the past year through more than ten educational programs, and it is planned to double this number by the end of the year. Also, as a result of state incentives, the number of educational centers that are residents of the IT park has increased to over a hundred. Starting this year, it is planned to establish a system of state grants of up to 1 billion soums to entrepreneurs who have their own start-up projects for the establishment of similar private educational centers. Through private training centers, young people who are interested in the IT field are becoming in-demand professionals and earning their own income in a short period of time.

The state has launched a number of financial incentive systems for young people interested in information technology. In particular, the state covers 50% of the costs of study and certification of young people who have received an internationally recognized IT certificate, and 100% of the costs of obtaining an international certificate for mastering foreign languages at a high level. It was also decided to allocate an educational loan of up to 20 million soums on preferential terms for 4 years for young people studying in educational centers who are residents of the IT park. In addition, from November 1, 2022, a system of allocating consumer loans for the purchase of computers (including those not manufactured in the Republic of Uzbekistan) for the purchase of computers (including those not manufactured in the Republic of Uzbekistan) will be



introduced for young people who have received a certificate of participation in educational courses in the field of information technologies of organizations that are residents of the IT park, or who have successfully completed these educational courses in the last 6 months.

CONCLUSION

In conclusion, it can be said that the implementation of the projects envisaged in the "Digital Uzbekistan - 2030" strategy was ensured on time and on a large scale, and according to the results of the rating evaluation of the introduction of information technologies and electronic services, the heads of ministries and departments, local executive authorities and their deputies for digitalization were paid a monthly increase of 30 percent of their monthly salary. defined.

It is determined that the quarterly results of the performance indicators of state bodies and organizations on digitization, as well as the results of the rating assessment of the introduction of information technologies and electronic services, issued by the Ministry of Information Technologies and Communications Development, will be the basis for paying the monthly salary increment provided for in this paragraph to the leaders and their deputies on digitization.

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