



LEGAL AND THEORETICAL BASIS OF ORGANIZING MODERN BIOLOGY EDUCATION BASED ON ELECTRONIC INFORMATION EDUCATIONAL RESOURCES

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Abstract

In the article, the reforms carried out by our government in order to modernize the education system in our country, to raise it to the level of world requirements, the tasks being carried out, as well as the role and importance of electronic information educational resources in improving the effectiveness of biology education in secondary schools. opinions about it are covered.

Keywords: educational system, modernization, electronic information educational resources, biology education, natural-biological knowledge, natural-scientific literacy, positive activity.

In the world, special attention is being paid to improving the quality and effectiveness of education, using the possibilities of modern pedagogical and electronic informational educational resources, based on the competence approach to natural science education processes. In the teaching of natural sciences, including biology, it is important to develop the creative and creative



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abilities of students through the effective use of computer pedagogical software tools, the information educational environment, and to improve the theoretical, methodological and methodological foundations of education.

The promising future of every country is determined by the development of the education system, which is considered a vital necessity and an integral part of it. Wider reform and further improvement of the continuous education system of our republic, which is currently accelerating on the path of independent development, raising it to a new level of quality, wide introduction of the world's advanced pedagogical, innovative and information communication technologies into educational processes, and improving the quality and efficiency of education is rising to the level of state policy. In particular, the adoption of the new Law "On Education" [1] in our country improved the basis of modern personnel training through the continuous education system.

At the international level, several scientific and research works aimed at improving the mechanisms of implementing innovative technologies, didactic materials and information technologies based on the principles of modern development are being carried out today.

In particular, a number of reforms are being carried out in our country in order to modernize the education system, adapt it to modern requirements and achieve high efficiency. Decree No. PF-60 of the President of the Republic of Uzbekistan dated January 28, 2022 "On the Development Strategy of New Uzbekistan for 2022-2026" [2] Conducting a fair social policy, developing human capital in the direction called "To introduce young people to the world of art, to acquire knowledge and skills in the field of computer and IT technologies, to launch the



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activity of more than 100,000 free clubs provided with the necessary equipment" task is defined separately.

Also, in the concept of development of the public education system until 2030, "Introduction of modern information and communication technologies and innovative projects in the field of public education; improving teaching methods, providing teachers and school administration with modern information and communication technologies and tools; priority tasks such as the gradual application of the principles of individualization to the educational process, the development of practical scientific research aimed at the study of alternative approaches and scientific justification" [3].

Resolution No. 161 of the Cabinet of Ministers of the Republic of Uzbekistan dated February 23, 2019 [4] "creating an electronic training base, forming the information infrastructure of educational institutions; priority tasks such as providing comprehensive training of all students of general education schools to work with computers and information technologies" have been set. Applying computer technologies to the educational process based on modern technical tools has become a requirement of the time in order to ensure the performance of the tasks defined in this decision.

Resolution No. 187 of the Cabinet of Ministers of the Republic of Uzbekistan dated April 6, 2017 [5] "Increasing the quality of education by widely introducing modern and innovative pedagogical methods of teaching and information and communication technologies into the educational process; priority tasks such as "creating conditions for students to receive a high level of education, to form and develop their creative abilities". In this regard, it means that it is necessary to pay special attention to the issues of further improvement of the didactic principles of



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using electronic information educational resources in educational processes in our country.

As can be seen from the above, in order for the education system in our country to achieve high standards and to enter the international arena, every employee of the education system must diligently perform his profession. Today, the organization of biology in general education schools on the basis of modern electronic tools helps to increase the natural-scientific literacy of students.

Many pedagogues in our country have conducted scientific research on the use of electronic information educational resources in educational processes. In particular, pedagogue-scientist M.H. Lutfillayev stated that electronic information and educational resources (EATR) in a broad sense are means of receiving, collecting, processing, and transmitting information about objects, processes, and events. and refers to a process that uses a combination of methods. In this case, it creates a wide range of opportunities to provide the learner with visual information in an interesting way [6].

According to H.T.Omonov, N.Kh.Khojayev, S.A.Madyarova, E.U.Eshchonov, information technologies exist at different stages of human development, and the characteristic feature of the modern information society is that information technologies are all existing technologies, in particular, since it occupies a leading position among new technologies, there is a need to reconsider the methods of their wider introduction into the educational system [7].

Based on these considerations, it can be said that today, to some extent, abandoning the approach aimed at providing students with ready-made educational materials for teaching biology, and achieving the student's ability to



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apply the knowledge he has acquired in his daily life and it is necessary to pay attention to the formation of independent thinking skills [8].

The main goal of teaching biology in secondary schools is to form the system of knowledge, skills and qualifications of students in this subject, to educate a person who can work positively in a rapidly developing society, who can think critically and logically.

The main task of teaching biology is to create conditions for students to acquire knowledge, skills and qualifications related to this science, to understand the importance of biology in the development of society, to teach them to successfully apply biological knowledge in everyday life, and to develop individual characteristics. In fact, the use of practical computer programs and pedagogical software tools created on their basis in teaching natural sciences is effective compared to other subjects.

Because in natural sciences, including biological science, natural-biological processes and events can be presented to students through electronic presentation, and this information will help them remain in their memory for a long time.

In conclusion, it can be said that today, in the era of increased volume of information and globalization processes, there is a need to use electronic information and educational tools to improve the level of knowledge of biology among students. In this case, systematization of the information provided by the science of biology, revealing the nature of the relationship between man and nature with a complex approach to the issue is carried out.



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