

## IMPROVED METHODOLOGY OF ORGANIZING DISTANCE SCIENCE CIRCLES FROM GENERAL SCIENCES

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**Abstract:** In this work, the issue of organizing independent extracurricular activities of students from general professional subjects of higher education institutions based on digital educational technologies is described on the example of distance science circles.

**Key words:** digital education, independent thinking, independent education, creative thinking, innovative education, individual activity.

The use of digital technologies in the educational system and the implementation of interactive technologies in the educational process require the education of individuals with intellectual potential, who can independently think and observe based on the modern achievements of science, in order to become highly qualified personnel. Today, the rapid development of science requires the widespread introduction of digital technologies, the rapid updating of knowledge in various fields of science, and the task of students to acquire regular knowledge independently.

The effectiveness of digital educational technologies is also that its participants will have integrated systematic knowledge and independent and creative thinking skills will be increased. Therefore, digital education is one of the most effective methods of developmental education. The initiative and skills of teachers are also important in organizing students' independent work outside of class.

The conducted research means that increasing students' interest in digital technologies is currently being studied as one of the urgent problems of the teacher training system.

Currently, the development of society is inextricably linked with the creation of specific conditions for the use of digital data for software developers using artificial intelligence technologies in the fields, as well as with the provision of rapid digitization of relevant information of state bodies and organizations [1].

Research of didactic levels of digital technology use in education expands in connection with technological development, educational goals and tasks are formed based on the demands and needs of the development of science and society. Currently, the development of society is inextricably linked with the creation of specific conditions for the use of digital data for software developers using artificial intelligence technologies in the fields, as well as with the provision of rapid digitization of relevant information of state bodies and organizations.

Nowadays, these distance learning circles are developing much faster than expected due to the healthy competition in the field considering the needs of the students. In the process of distance education of students, the amount of work to be done can be explained by the development of the level of intelligence of learning management systems based on artificial intelligence in digital education. Individually paced training, freedom and flexibility of class schedule, accessibility, mobility, social equity, creativity, intensity, comfortable environment, etc. can be cited as the main reasons.

As mentioned above, in order to eliminate the problems of the educational process, it is necessary to develop software tools and organize their effective use, to form students' knowledge and skills.

In order to further strengthen the experiences and test them in real practice conditions, as well as to develop practical skills based on digital technologies, an improved methodology of using software training tools was developed and put into practice.

Practical training and independent education are of particular importance in the development of the knowledge of the participants of the circle. These practical exercises are one of the important forms of the educational process, and students perform a set of educational tasks under the guidance of the teacher. For those

students who could not participate in online classes, video lessons will be broadcasted on the telegram channel of the circle. This increases students' level of mastery by repeatedly watching video lessons prepared on the subject.

As a shortcoming of organizing a distance club, it can be pointed out that there is a possibility of low internet speed for participating students in remote areas of our Republic. In this regard, for today's youth, based on a series of decisions of the President on increasing the speed of the Internet in remote areas, the above-mentioned problems are being solved.

It can be said that one of the urgent tasks of today is to use digital technologies in education, to have both economic and social effects, and to improve theoretical, methodological and other aspects in this regard based on the requirements of the time. The content of the circle depends not directly on the nature of work, but on whether it can find an opportunity for independent activity. The obtained result is to further improve the quality of education by effectively using the possibilities of digital technology and using the ideas of modern development effectively and purposefully.

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