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# TEACHING THE SCIENCE OF "TECHNICAL AND SOFTWARE OF THE COMPUTER" IN HIGHER EDUCATION INSTITUTIONS

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## ABSTRACT

This article presents the problems of "Computer technical and software" teaching in higher education institutions, suggestions and recommendations for their elimination.

**Keywords:** computer support, information-educational environment, Sase-studio, virtual stand, informatics.

Despite the widespread discussion of the introduction of information technology tools into the educational process, the scope of practical work and the attention directed to it are at the level of demand in higher education institutions. does not [1]. The analysis of the results of scientific research and our observations revealed that the use of information technology tools in the educational process of higher education institutions is superior to traditional methods and that interactive learning is paid less attention to the use of computers and innovative didactic technologies in the direct educational process. allows.

The use of modern information technologies in the educational system required a revision of concepts both in content and in essence. Therefore, attention was paid to teaching with a new approach in the educational process [3]. When we say the educational process, we see the whole process of interaction between the teacher and the student. Now this process is being combined with electronic textbooks, interactive teaching-methodical complexes, video and audio lectures, practical packages, virtual educational technologies, training programs, television and radio training courses. In this process, teaching directly depends on the student's greater internal capabilities, intellectual potential, information reception and assimilation characteristics [4].

The results of the conducted observation and pedagogical activities showed that the development of information technologies and the development of modern approaches to increase the effectiveness of the teaching of subjects, the creation of electronic educational resources for the teaching of subjects, and the introduction of a training system for informatics specialists , that is, it is necessary to improve the forms, methods and means of increasing the efficiency of teaching subjects belonging to the category of informatics [1-4]. To improve the methodology of teaching professional subjects, in particular, "Computer technical and software" subject, modern teaching technologies should be used. , wider implementation of the use of didactic e-learning tools, information-educational environments has become a serious necessity. In this regard, in higher educational institutions of our country and the Commonwealth of Independent States, the creation of electronic educational resources, complexes, pedagogical software for the subjects of informatics, the methodology of their introduction, and the improvement of the methodological system of future informatics teachers , the formation of professional competence and the improvement of the content of the training of informatics teachers, as well as the theory and practice of creating a new generation of educational literature, the methodology of forming students' algorithmic and programming competence N.I.Taylaqov, F.M.Zakirova, M.H.Lutfillayev, S.Q.Tursunov, M.X.Allambergenova, M.R.Fayziyeva, F.M.Zakirova,

M.H.Lutfillayev, S.Q.Tursunov, M.X.Allambergenova, M.R.Fayziyeva, T.T.Shoymardonov, A.D.Ongarbayeva, D.V.Luchaninov, B.A.Kondratenko, L.M.Ivkina, YE.V.Kirgizova, M.M.Abdurazakov, Iunia-Cristina, Borza, L.Eidelman, J.Warren, O.Hazzan, N.Ragonis scientific researches were carried out by scientists such as.

According to the results of the analysis of the researches of the above-mentioned scientists, we have seen that the methodology of teaching "Computer hardware and software" in pedagogical higher education institutions has not been studied in a special monograph. The content of the subject "Computer hardware and software" is the structure of computer devices (microprocessors, operating memories, hard magnetic disks, motherboards, power blocks, audio and video cards), information exchange, principles of operation, physical characteristics and software tools. is a science that studies installation and use (application programs, programming languages, application packages, software tools for creating multimedia applications, graphic programs).

In general, the subject "Computer technical and software" is considered the main basis of the subjects taught in professional subjects of future teachers of mathematics and informatics in higher educational institutions of pedagogy.

Programming languages, network technologies, database, computer graphics and web design, goals and tasks of computer science and information technologies, possibilities of taught practical, instrumental and shell programs, their installation and configuration methods and mutual structure of the system device, principles of their operation are taught. Therefore, new approaches to the teaching of "Computer supply" science, i.e., problem-based teaching and SASE-STUDU technologies, as well as 3-D educational tools placed in the information-educational environment, virtual stands, virtual ma It is necessary to improve the methodology of organizing lectures, laboratory sessions and independent education based on the integration of lectures. For this, it is necessary to eliminate the following series of problems: a modern educational tool for teaching the science of "Computer support" (virtual stands, video and training of future informatics teachers by means of testing it application to the activity of students; improvement of the methodology of organizing independent educational activities of students in the subject of "Computer maintenance" using information-educational environments; self-assessment and improvement of the controlling online system, creation of an informational educational environment aimed at developing the competence of students in the subject of "Computer maintenance".

To sum up, in order to increase the efficiency of teaching the subject "Technical and software of the computer" of students, it is necessary to develop new teaching approaches and teach the subject based on them. As a result, students' interest in this subject increases, motivation arises. This will increase students' creative thinking in the fields of informatics.

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