



## PROBLEMS OF TEACHING" COMPUTER SUPPLY " IN HIGHER EDUCATION INSTITUTIONS

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### Annotation

This article provides suggestions and recommendations for eliminating problems in the study of the discipline "Computer software" in higher educational institutions.

**Keywords:** Computer software, information training, Case-study, virtual stand, computer science.

Despite the large-scale discussion of the issue of introducing information technology tools into the educational process, it is impossible to consider the scope of practical work on the development of students' competence from the computer science category in higher education institutions and the attention paid to it at the level of demand [1].

The results of scientific research and the analysis of our observations made it possible to find out that higher education institutions prefer the use of information technology tools in the educational process over traditional methods, and that little attention is paid to the use of computer and innovative didactic technologies in the direct educational process [2].

The application of modern Information Technology in the educational system necessitated a revision of concepts both in content and in essence. Therefore, attention began to be paid to teaching with a new approach in the educational process [3]. When the educational process is called, the holistic process in the relationship of the professor and the student comes to mind. Now this process is harmonizing with electronic textbooks, interactive educational and methodological complexes, video and audio lectures, practical packages, virtual educational technologies, teaching programs, television and radio training courses. Training in this process directly depends on the characteristics of the student's more internal capabilities, intellectual potential, perception and assimilation of Information [4].

The results of the observation and pedagogical activities carried out showed that it is necessary to develop modern approaches to the development of the field of Information Technology and improving the teaching efficiency of subjects, to create e-learning resources intended for teaching subjects, and to improve the training





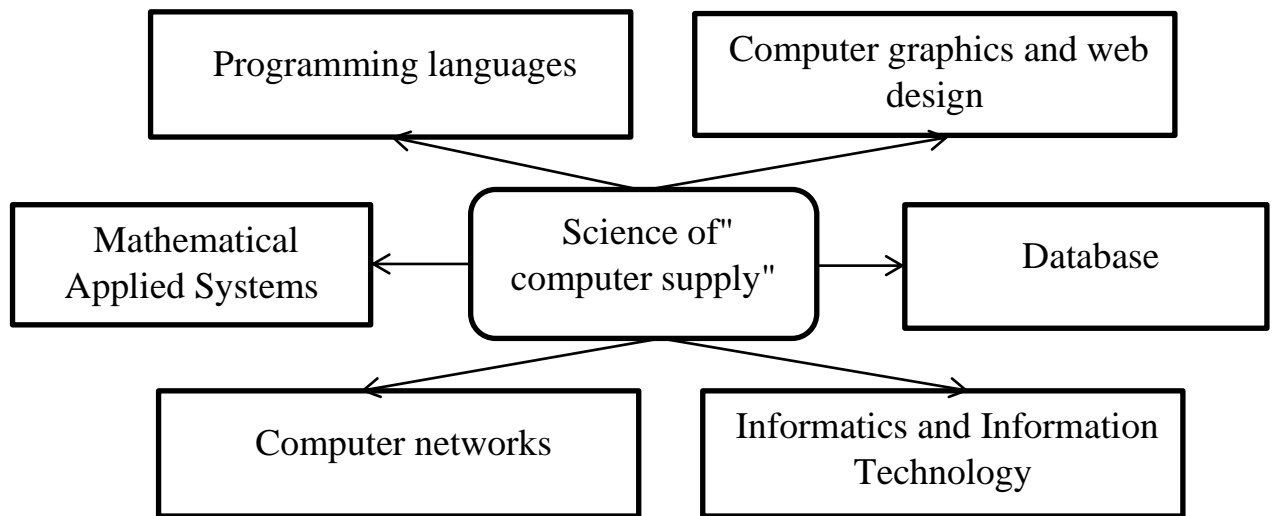
system of computer science specialists, that is, the form, methods and means of increasing the Therefore, in the preparation of informatics specialists, it has become a serious necessity to more widely apply the use of modern teaching technologies, didactic e-learning tools, information and educational environments in improving the methodology of teaching professional subjects, in particular "computer supply".

In this regard, in the country and the Commonwealth of independent states, in higher educational institutions, electronic educational resources related to the subjects of the Informatics category, interactive educational complexes, methods for creating pedagogical software, improving the methodological system of future Informatics teachers, improving the content of the formation of professional competence and training of Informatics teachers, the theory and practice of creating a new generation of I. Taylakov, F.M. Zakirova, M.H. Lutfillaev, S.Q. Tursunov, M.X. Allamberganova, M.R. Fayzieva, T.T. Shoymardonov, A.D. Ongarbaeva, D.V. Luchaninov, B.A. Kondratenko, L.M. Ivkina, E.V. Kirgizova, M.M. Abdurazakov, Iunia-Cristina, Borza, L. Eidelman, J. Warren, O. Hazzan, N. Research has been done by scientists such as Ragonis.

According to the result of the analysis of the research of the above-mentioned scientists, we witnessed that the methodology for teaching the subject of "computer supply" in pedagogical higher educational institutions was not specially monographic research. The content of the "computer supply" science is a science that studies the structure of a computer device (microprocessors, RAM, hard magnetic disks, motherboards, current blocks, audio and video cards), the exchange of information in them, performance printers, physical properties and the installation and use of dsaturium tools (applications, programming languages, practical packages, software tools that create multimedia applications, graphic programs).

In general terms, the subject of "computer supply" is the main basis of the subjects taught in the professional subjects of future Informatics teachers at pedagogical higher educational institutions.

The science of "computer supply" is aimed at teaching the initial concepts of the subjects of the Informatics category in the educational direction "Informatics teaching methodology" and "mathematics and informatics" of pedagogical higher educational institutions, this science is given the initial concepts of the following subjects (see Figure 1)



**Figure 1. Subjects related to subjects taught in " computer supply".**

The subject "computer supply" is taught the goals and objectives of programming languages, network technologies, database, computer graphics and Web Design, Informatics and information technology, the possibilities of practical, instrumental and Shell programs taught, methods of their installation and configuration, and the mutual structure of a system device, their operation printers.

Therefore, it is necessary to improve the methods of organizing lectures, laboratory sessions and independent education based on the integration of problematic teaching and SASE-studu technologies and 3-D format teaching tools, virtual stands, virtual lectures, which are placed in the information and educational environment. To do this, it is necessary to eliminate the following categories of problems: development of modern educational tools for teaching " computer supply " (virtual stands, video lectures) and their introduction into the educational system;

Implementation of future computer science teachers into educational activities by creating an information and educational environment designed to teach " computer supply"; improving the methodology for organizing independent educational activities of students in the subject of " computer supply " using information and educational environments; improving the online system of self-assessment and control of students in the subject of " computer supply"; creating an information educational environment aimed at.

In conclusion, it is necessary to initially develop new approaches to teaching and, on their basis, to teach science in increasing the level of teaching awareness of the "computer supply" of students. As a result of this, students, their interest in these



subject increases, motivation Awakens. This increases the student's creative thinking from the subjects of the Informatics category.

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