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APPLICATION OF COMPUTER TECHNOLOGIES IN THE EDUCATIONAL PROCESS

Abstract: The purpose of the article is to demonstrate the role and importance of computer information technology in the training of personnel. The main topic of the article is to address the issues of student learning, including computer. The article examines the role and importance of electronic computer technologies and computer technologies in the learning process, with an emphasis on the basic knowledge and skills needed to use computer technology.

Key words: information, information technology, Internet, electronic computer, creative project, technological formation.

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Introduction

In the conditions of the modern dynamic development of society, the complexity of the technical and social infrastructure, information becomes the same strategic resource as traditional material and energy resources. During the period of informatization, societies acquire the importance of the ability to collect the necessary data, put forward a hypothesis, draw conclusions and conclusions, use new information technologies to work with information[1].

Modern information technologies that allow you to create, store, process information and provide effective ways of presenting it to the consumer have become an important factor in life. Information

technology is a powerful tool to accelerate progress in all areas of social development, one of the essential factors determining the competitiveness of a country, region, industry and individual organization determine a new lifestyle of society [3].

The ability to use a computer to solve professional and educational problems becomes an essential component of the training of any specialist, therefore, education of any level is faced with the task of preparing specialists for the use of computer technology in future professional activities.

According to experts, by means of computerization of education, the following goals can be achieved:

- improving the quality of education;

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- increase the degree of accessibility of education;

- increasing the economic potential in the country due to the growth of education of the population;

- integration of the national education system in the scientific, industrial, socio-social and cultural information infrastructure of the world community.

The specificity of the education system is that, on the one hand, it is a consumer, and on the other, an active producer of information technology, therefore, the use of information technology in educational systems is the basis for solving the urgent problem at present - identifying new computer capabilities as a means to create personality-developing situation in the learning process.

The study of domestic and foreign experience in the use of new information technologies, in particular computer, for training purposes, as well as theoretical studies in the field of education informatization problems suggest that the inclusion of electronic computer technology in the educational process affects the role of training tools commonly used in the process teaching different disciplines.

Computer programs are used as technical training aids (TCO), which have a set of specific features that are not available to any other TCO to such an extent to enhance students' cognitive and cognitive activity, as a means of communication, a monitoring device, a compact storage method and quick information retrieval [4].

The introduction of new information technologies into the educational sphere allows us to qualitatively change the content, methods and organizational forms of training, to create additional opportunities, namely:

- access to a large amount of educational information;

- figurative visual representation of the studied material;

- support for active teaching methods;

- allows you to replicate the individual components of information technology;

- support of information technology with appropriate scientific and methodological material.

Methodologically new information technologies in education should be worked out with a focus on specific application. Some technologies can support the educational process, for example, lectures and practical classes, other technologies can effectively

support the development of new textbooks and teaching aids, accompany and support project activities. Information technology will also help to effectively organize experimental research work both at school and at a university, and in particular, the Internet can be a good tool for both teachers and students [5].

Information technology is part of the educational field of Technology. Training students in the educational field of "Technology" involves a large amount of practical work, success in this case is facilitated by creativity, new knowledge and skills.

The personal computer begins to occupy a solid place in the education system. Its use can be very different, however, it should always contribute to the achievement of certain pedagogical goals, take into account the individual characteristics of the trainees[7].

Students, learning, master a system of knowledge about the role of computer technology in the learning process, about the capabilities of computer technology (CT), master the system of necessary skills and abilities to work with computer technology, as well as how to use computer technology in the educational process.

Student core skills should include:

✓ the ability to enter the network (e-mail);

✓ the ability to compose and send a letter;

✓ the ability to find information;

✓ structure received letters in a special

directory;

✓ work in the WINDOWS system, using

WORD editors of various modifications;

✓ enter electronic conferences, post your own information there, "pump over" the information available in various conferences;

✓ enter the IP channel;

✓ use remote databases;

✓ use various Internet services.

An important condition for preparing a future teacher for the effective use of computer technology in project activities is the development of software tools that allow you to develop a strategy for the effective use of a computer. Computer technologies, in this case, act not as a subject of study, but as a tool of cognition, for students to represent their knowledge in the subject area during the implementation of projects. The presented approach to the use of computer technology in support of project activities, especially such a course as management, is quite new.

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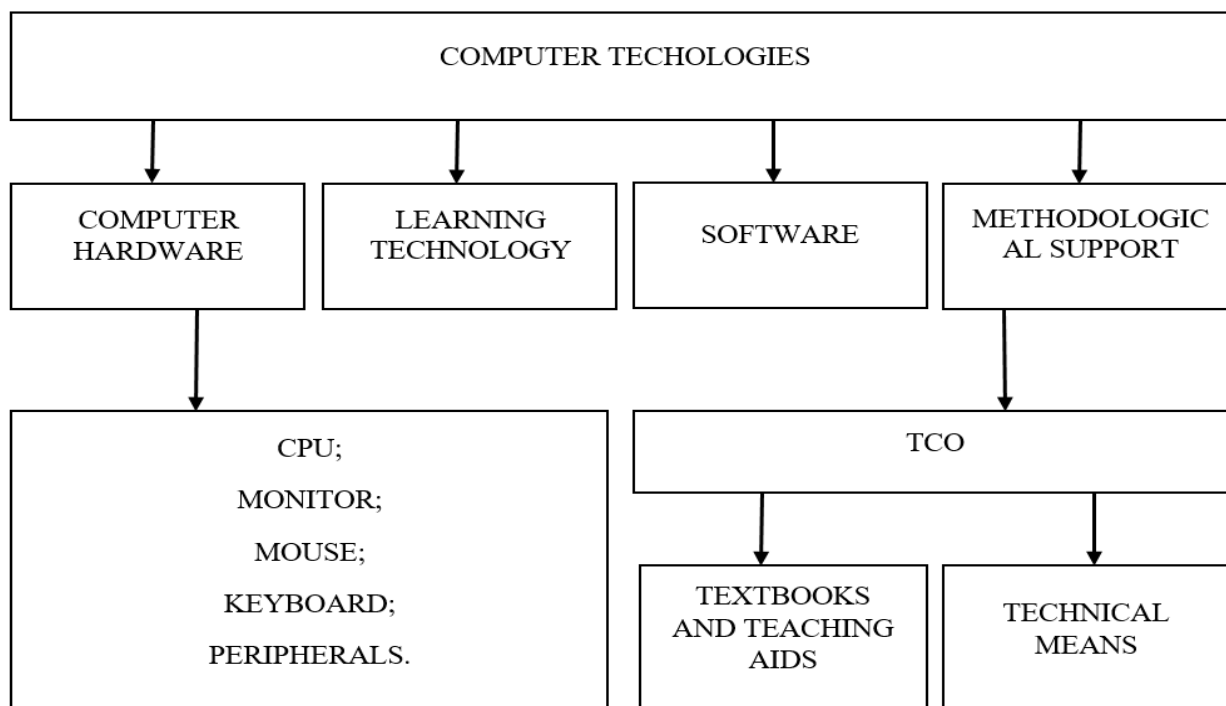


Figure 1 - Computer technology diagram

The experience of design work has shown the effectiveness of using the method. When studying management, there was an increase in interest in the material being studied, mastered through non-traditional methods. Deepening their interest in end result. For the development of projects, various types of software are used, depending on the preparedness of the trainees. A variety of tools allows you to differentiate learning and develop creative abilities.

An important role in this preparation is given to teaching practice, during which students develop and give trial lessons, attend teacher classes, learn to analyze and evaluate each lesson, and manage student projects.

Based on the results of the study, the following conclusions can be made:

- ✓ The results obtained confirm the hypothesis about the positive, significant impact of the project method of training in management on the level of training of the future teacher of technology and entrepreneurship;

- ✓ the use of the project method in the management training process with the aim of enhancing the educational process, allows to increase the level of students' knowledge formation within the limited training time;

- ✓ computer technologies have proven themselves in the implementation of projects and have been used in the following areas: selection of topics and project objects (project bank), selection of

materials and tools (morphological tables), search for technology for manufacturing objects (diagrams, drawings, descriptions, samples), computer design of objects, fast, high-quality and effective design of a planned creative project.

Findings

Internet technologies used at the Pedagogical University, allow you to effectively use the techniques of activating the activities of students and teachers in project activities, namely:

- ✓ pose problematic situations for each student and solve them with different depths and intensities (real solution of economic, technical and pedagogical problems);

- ✓ apply the wide possibilities of control and assessment of knowledge by students and the teacher themselves at any stage of the student's project activity;

- ✓ to form knowledge that activates the search activities of students through various forms of presentation of information;

- ✓ encourage teachers to help solve problem situations.

Project activity is a natural way out for realization of individual interests and creative potential of each student. It can be expected that the integration of all subject-oriented courses focused on students' project activities using information technology can solve the problem of teacher quality training.

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