

**MODERN TRENDS IN PEDAGOGICS
ON INTRODUCING INFORMATION TECHNOLOGIES
IN THE STUDENT TRAINING PROCESS**

**СОВРЕМЕННЫЕ ТЕНДЕНЦИИ В ПЕДАГОГИКЕ
ПО ВНЕДРЕНИЮ ИНФОРМАЦИОННЫХ ТЕХНОЛОГИЙ
В ПРОЦЕССЕ ОБУЧЕНИЯ СТУДЕНТОВ**

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The article is about modern trends in pedagogy, the role of information technologies in the creative activity of "Design" specialty students, and an overview of graphic programs used to train designers.

В статье рассматриваются современные тенденции в педагогике, роль информационных технологий в творческой деятельности студентов специальности "Дизайн", а также обзор графических программ, использующихся для подготовки специалистов дизайнеров.

Keywords: modern means of education, information technologies in creative activity, "Design" specialty.

Ключевые слова: современные средства обучения, информационные технологии в творческой деятельности, специальность "Дизайн".

Social and economic reforms in Kazakhstan and demand placed on graduates of universities by employers and the labor market lead to inevitable changes in the quality of professional education. The modern education system in the process of learning should form for student the necessary professional skills and qualities, teach him to make independent decisions, to know and be able to correctly

use various means to solve emerging problems.

The transition to an information society requires the education system to solve a fundamentally new problem of training people who are adapted to the rapidly changing realities that can not only perceive, store and reproduce information, but also produce a new

one, manage information flows and efficiently process them [1].

Modern trends in pedagogics are aimed at developing and implementing the perfect technological approaches to the organization of the training process.

Most modern teaching aids are based on information technologies. With the active introduction of information technologies in the training process, there are great prospects - improving the efficiency and quality of the education process, as well as its adaptability to the individual characteristics of each student. However, excessive concentration on the introduction of information technologies, computer programs and transferring to a secondary plan the ability of students to "work with their hands" can lead to the opposite results.

Therefore, it is important to analyze the key points related to the integration of information technologies in the educational process and outline the boundaries of their most appropriate application.

At this stage of the development of education system, there is a problem of purposeful preparation of students and entrants to creative activity. The real problem is related to various problems and aspects of the learning process. Scientific-technological progress and market economy have a great influence on all spheres of human activity. In this regard, raised the requirements for the level of student and a young specialist creative abilities who are able to independently solve a variety of creative tasks. This task and the requirements for raising the creative level of the young specialist have become a worldwide trend.

In the recommendations of the XXI International Congress of UNESCO (1999 Seoul), emphasis is placed on the fact that professional education should "not only provide students with the knowledge and skills of specific work, but give them something more and more carefully prepare a person for a world of work." Because of the large "dispersion" of the demands placed on graduates of higher educational institutions by employers, a problem arises to the teachers. Some teachers focus on stimulating the positive motives of educational and creative activity, others - on the development of intellectual qualities, the third

place emphasis on the self-organization of the student's personality in educational and creative activities. As a result, the creative abilities of the individual develop unevenly, young specialists either do not always orient themselves in engineering and technological processes, or show no interest in creative activity, which is impossible when the designer becomes a person. All these qualities should complement each other for a more complete development of skills.

The process of training for active creativity remains an actual task of pedagogical science and practice. Today, only a person creatively related to activity is able to solve the entire complex of practical and theoretical problems, which puts him scientific and technical progress. Consequently, one of the most important tasks of professional education is the creation of pedagogical conditions for the development of creative imagination and the creative qualities of personality that are necessary for further creative professional activities.

Introduction of the newest information and educational technologies in the sphere of higher education allows to change and revise the forms, content and methods of teaching students. An important educational program at the present stage of education is the search for new effective forms that will improve the quality of education. Today, when applying for a job, an obligatory requirement for a young specialist is the possession of computer programs at the proper level, the portfolio of the candidate's work. Using of information technologies by the teacher in the educational process, as well as in independent and project activities, will lead to positive results in the teaching of students.

The computer and the Internet are the most accessible and modern methods of obtaining, processing and registration of the results of the trainee's work. Computer technology is not only a highly effective pedagogical tool, but also a means of access of teachers and students to scientific and methodical information in an interactive mode.

Interactive (from English "interact" means "the ability to interact or is in the mode of conversation, dialogue with something (for

example, a computer system) or someone (a person) [2].

In the process of teaching students on 5B042100 "Design" specialty at Almaty Technological University, the following packages of graphic programs are used that allow you to approach the issue of training specialist in accordance with international requirements and the specifics of this specialty:

- package Adobe Creative Suite Design Premium includes following programs: Photoshop, Illustrator, InDesign, Flash Professional;

- package Corel DRAW Graphics Suite includes following programs: vector editor Corel DRAW and the raster graphics editor Corel PHOTO-PAINT;

- package Autodesk Product Design Suite, with programs Autodesk 3ds Max Design, AutoCAD.

Information technologies contribute to the disclosure and development of individual abilities of students, aspiration for self-training and emphasize the role, significance of intersubject communications. Using modern information technology students have the opportunity to create thematic computer projects in various directions in accordance with their ideas, views and thinking.

Using the Adobe software package "Graphic Design" specializing students consolidate the acquired knowledge in the design of corporate style, processing of raster images, imposition of books and booklets, creating animated scenes and video films (Fig. 1 – color correction of raster images).



Fig. 1

"Fashion Design" specializing students use Corel DRAW program to draw models of

clothing, technical sketches, trend-boards of collections (Fig. 2 – drawing the model of female clothing in the vector).

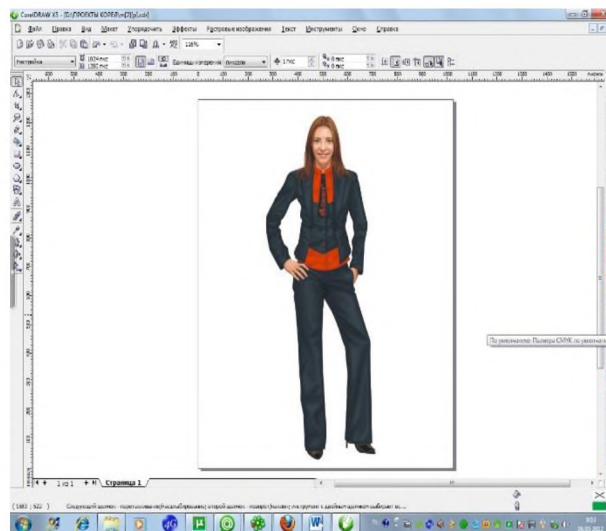


Fig. 2

CONCLUSIONS

An important task of modern education is to coordinate the activities of university teachers with the goal of effectively student work where computer technology will play a big role.

One of the important tasks facing the university is the training of specialists who are able to apply new educational methods and use computer technology in professional activities.

In addition, it is necessary to retrain the teaching staff with the goal of mastering, introducing computer technologies in the process of their teaching disciplines.

The solution of these problems will allow to optimize the process of training specialists using computer technology.

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