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The necessity of professional computer teaching of the future designers

The article is devoted to the results of the content analysis of scientific and regulatory sources that show the need for the development of future designers through the professional computer teaching. As one of the key conditions for the effectiveness of this process is to give more opportunity for professional development of the future designer.

Key words: Student, development, professional, design, education, application, civilization, practical, modern, revision

Information processes that serve as basis for the development of civilization in modern society, provide opportunities for the application of information and communication technologies and computers. Development and application of ICT technologies in all spheres of human activity has begun to process information in general. The education sector is no exception. The training and education of the people, which not only shape the modern information society, but who will live and work in this society is one of the most important conditions for the reform and modernization of the education system. In the global society pays great attention to educational systems aimed at the intellectual and moral development of the person through the activation of independent, purposeful activity in various fields of knowledge. A huge flow of information and trends quickly update knowledge lead to a revision of the training system professionals be able to adapt to the rapidly changing conditions of modern society; you will need to extract and process information, using information resources, not only domestic, but also the world, to solve problems; to acquire knowledge and skills necessary for successful work and to apply them in practice; to think critically, to identify problems and to seek ways of their rational decisions; to work in teams, which brings together specialists from different fields of knowledge; to use and stimulate individual work of the student during educational process [1].

The existing framework of professional training of future designers includes design, production and technological, organizational and administrative, analytical, research activities, providing socio-scientific, artistic and technological knowledge, through which you receive the ability to design, convert, create. The main task in providing solutions to the challenges of education is the acquisition of computer technologies that are an integral part of modern knowledge of the designer.

Although in the scientific literature today, many authors have noted the need for improved training students in design, revision of traditional approaches, which are not capable in terms of already formed the information society to ensure the solution of actual problems in the sphere of training of future specialists, it should be noted that the system of professional design education is still at a formative stage. Understanding of the place and role of design as a new type of design and art of human activity poses education system the task of training specialists with advanced complex creative abilities, formed the aesthetic and artistic views, owning a design thinking and the ability to implement design solutions using modern information and communication technologies and programming technologies. They should be ready for continuous self-development and self-realization. In this context, of particular importance is the question of the effectiveness of training students in design based on the development of computer technology, with the aim of further use of the acquired skills in their professional activities.

Multiple conversations with students of our faculty, future designers, showed that the study of computer technology helps to diversify the learning process, activates self-activity, improves search engine and creativity. Computer technologies are a tool for the implementation of students' design projects. Training students in design of culture and arts is based on the system requirements, student-oriented, active approaches. Performance of students in training-oriented problem tasks combines different forms of mental operations, aimed at formation design and creative thinking students in design, the formation of creative ideas, developing effective strategies for solving design creative tasks, materials selection and visualization tools, planning the creative process of design and artistic activities with specific design situation. Practical

course which create design students developing electronic textbook, study the subject area, identify text, graphic, audiovisual information. Perform the collection, processing and systematization of the initial information on the computer, design your own electronic product that undoubtedly requires quality computer training of students. However, in the process of pedagogical activity of teachers from the first year are faced with the problem of inconsistency of the requirements of the educational process of the University to the real level of preparedness of high school graduates to continue their education at a qualitatively new stage of education. The solution to this problem is realized in the development of creative abilities of students, enhance self-employment, in the formation of the analytical and design and creative thinking.

Nowadays knowledge is very important to develop all professional skills, this is facilitated by the inclusion and active use in the solving process students creative problem solving techniques such as systems analysis, modeling, synthesis, abstraction and other.

The aim of professional preparing of the future specialists is to make great professional masterpiece. In addition, for the formation of professional competence of a specialist designer, particular attention is paid to the application of student knowledge, abilities and skills from related disciplines and activities [2].

The importance of professional preparing of the future specialists is to determine the position of the designer in the labour market determines the urgent need at the very beginning of the educational process of the future specialist to put in a position where the value determination, student, intelligence, ability to act independently, prevail over all other qualities. Feature design education is that when the minimum academic disciplines need to get almost universal specialist, focusing in science, technology, social issues, culture and art, that is responsible relevant today integrality criterion.

The obtained data are used later when making your own balance of successes and failures, as well as identifying the strengths and weaknesses of the future designer and factors that facilitate or impede the achievement of the goals (systematically, technological, individual, activity). The next step is the analysis of the ratio of «the purpose-tool» where you want to formulate a priority at the moment personal and professional goals and identifies the necessary and sufficient means of achieving as multimedia, printing, project works, space system, internet, animation [3].

Professionally increased attention to the level of professionalism of the graduates of higher educational institutions today is one of the Central places in some of the requirements of the society to the national education system. Social order defines a large number of graduates in the creative arts. Bright, fun and versatile imaging process attracts many active young people.

Modern employers demand creative professionals able to adapt to the rapidly changing professional environment, creative solutions, flexible approach to solving problems, constantly improve. Creativity is the essential quality of a designer, because of his professional activity is to create original, aesthetic, ergonomic and popular product, working with existing designs and approved production schemes in exact accordance with state Standards. In this article, as an environment conducive to the future development of creativity of the designer, we consider information and educational learning environment educational environment based on the use of information computer technology. The relevance of the future development of creativity of the designer by means of modern information technologies due to their not yet released creativejenney opportunities [4].

Education is the growing activity of a person in a specially organized environment, calling him motivated cognitive activity, to fill it with new, more difficult, feasible educational material. Educational environment, ever-expanding sphere of life in the growing person — student, which includes increasing the richness of its mediated culture ties with the outside world. Creation of conditions for formation and development of professional skills is always in need. Purposefully organized environment for the student-designer allows the future specialist to generate a need for joint activities, to develop a strategy of interaction, to acquire the necessary knowledge, abilities and skills. The development of the educational environment for students in design is a necessary condition because it is in the space of colleges is a student exchange values of the profession of the designer, is the value of the interaction of the teacher and the student [5].

The formation of professional competence of the future designer promotes participation in the activities of creative lab compositional analysis, future professionals perform the role of organizer, designer, designer, technologist, which form professional competence. At this stage, the special significance of pedagogical support of the future of the designer, the analysis of professional and life situations, adequate assessment of their capabilities, personal attitude and motivation to excel in their professional activities. Speaking about computer systems designers, it's necessary to know that they conduct research, improvement and

development of various computing concepts and operational methods. On the other hand, they may advice on or be engaged in their practical application. Among the common and important tasks of computer systems designers are researching operational methods and main principles of computers and various computer-based systems for information processing, design, planning, production and process control. At the same time, computer systems designers are responsible for development and maintenance of computer software, data structures, databases, algorithms, robots, artificial intelligence. It's impossible to speak about computer systems designers and not to mention that they maintain management systems of data bases and data dictionaries to ensure the data safety and validity. They are also known to contribute and keep up with modern technical developments of computers and their peripherals, software and computing methods, defining their limitations and potential. Thus, computer systems designers have a wide range of functions in sphere of data processing industry.

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Болашақ дизайнерлерді кәсіби-компьютерлік даярлаудағы маңыздылығы

Мақалада болашақ дизайнерлерді кәсіптік компьютерлік дайындау мәселелері қарастырылған. «Дизайн» мамандығы бойынша жоғары оқу орындарында мамандар дайындаудағы компьютерлік білім және дағдыларды қалыптастыру жолдары ұсынылған. Технология сатылары, соның ішінде білім беру технологиясы, педагогикалық технология, оқыту технологиясы болашақ дизайн мамандарын оқытудың кәсіби компьютерлік даярлығын жобалауда негізге алынатын қағидаттары жан-жақты талданған.

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Значимость профессионально-компьютерной подготовки будущих дизайнеров

В статье рассматриваются проблемы профессиональной компьютерной подготовки будущих дизайнеров. Проанализированы необходимость овладения знаниями и навыками компьютерной подготовки студентов высших учебных заведений специальности «Дизайн». Выделены технологические стадии изучения компьютерных программ, методы оценки знания студентов, постепенное повышение квалификации. Указаны пути реализации предложенных в статье методов в учебном процессе.

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