METHODICS OF USING PROGRAMMED MEANS OF EDUCATION FOR THE FORMATION OF PROFESSIONAL SKILLS OF FUTURE TEACHERS OF FINE ART

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ABSTRACT

The article systematically analyzes theoretical foundations for improving professional training of future teachers of Fine Art, which are considered one of the important conditions of today's educational sphere. It describes didactic possibilities of increasing students' motivation related to the subject in the process of education through the use of educational software means. The formation of virtual practical classes in teaching the subject "Drawing" in higher educational institutions in the specialty 5110800 - "Fine Art and Engineering Graphics", elaboration of methodical guidelines for their use are pedagogically justified. Methodology for developing a programmed, electronic educational-methodical complex on the subject of "Drawing" is recommended. It covers (introduction, normative documents, lectures and practical classes, self-study topics, presentations, animations, programmed diagnostic tests, keywords and terms, used literature, information about the authors) all the information on the subject. Thoughts about the actual tasks of the development of the educational system in increasing the efficiency of the acquisition of the subject "Drawing" are stated.

Keywords: Education system, programmed electronic educational-methodical complex, software, virtual stand.

INTRODUCTION

In modern education system of information technologies, great importance is attached to the establishment and use of programmed educational tools; full satisfaction of the citizens' need for information, joining the world information community and creating favorable conditions for the use of information resources.

In pursuance of the objectives of the Decree of the President of the Republic of Uzbekistan No. PD-2909 - "On measures for further development of the higher education system" dated April 20, 2017, Decree of the President of the Republic of Uzbekistan No. PD-5099 - "On measures to radically improve the conditions for the development of information technologies industry in the Republic" dated June 30, 2017, Decree of the President of the Republic of Uzbekistan No. PD-3151 - "On measures to further expand the participation of industries and sectors of economy in improving the quality of training specialists with higher education" dated July 27, 2017, and other legal documents concerning this sphere, certain works have been intended, and this article also contributes to the fulfillment of the tasks mentioned above.

Based on the ideas described above, a number of tasks are to be performed to increase the efficiency of the education system using programmed electronic educational-methodical complexes. In particular, it is necessary to analyze the choice of the field of education and

existing problems, it is necessary to develop programmed electronic educational-methodical complexes and their application in practice.

LITERATURE REVIEW

While developing the system of continuous education, one of the innovative tasks nowadays is to provide more opportunities and qualitative educational services for students, and to train qualified personnel.

The Strategy of Actions for Uzbekistan's Development on Five Priority Areas in years 2017–2021 reflects the ways of further improving the system of continuous education through the development of the fields of science and education, enhancing the opportunities for qualittive educational services, as well as training the qualified personnel, improving the quality of general secondary education radically and developing the subjects of high demand. [1].

While emphasizing the importance of creating an e-learning environment with the integration of science, education and industry, it is necessary to improve the quality of education.

The Law of the Republic of Uzbekistan "On Education" and "The National Training Program" are the reflections of the great attention of our government to the education system, and serve as models for improving the educational process [2, 3].

In this regard, the professional training of future teachers of Fine Art is one of the important matters of ensuring a high level of preparation of the young generation for the implementation of the requirements of the National Training Program.

On March 7, 2002, the Ministry of Higher and Secondary Special Education, the Ministry of Public Education and the State Press Committee of the Republic of Uzbekistan signed a cooperative Decree under No. 71/22/44 "The concept of creating new generation of textbooks for the system of continuing education", which noted such tasks as: development of methodological, psychological, pedagogical, scientific and ideological requirements for creating programmed electronic educational -methodical complexes, giving a clear description of their existing forms and types for the correct and rational use of e-learning software systems, as well as identifying the strategic issues for the preparation of the national electronic educational and methodological literature.

Taking into consideration the above goals, it is important to educate prospective teachers of Fine Art as highly educated, highly professional, capable of thinking and reasoning based on the achievements of modern science, as well as competitive, highly qualified personnel. Therefore it is necessary to create a new generation of electronic educational- methodical complexes programmed for teaching [5].

In the work of V. Paronjanov "The XXI Century Textbook" the following considerations are given: "For the new generation of the present times, it is necessary to have modern knowledge and information. You will have to master a huge number of natural, technical, social and human sciences, which have no analogues in previous standards. Present teaching methods, technologies and textbooks do not meet these requirements"[6].

METHODOLOGY

Based on the method of analysis, the scientific and methodological literature related to the research topic has been systematically analyzed, advanced pedagogical experiments have been studied and generalized.

Based on the observation method, the system of conducting lessons and the organization of the "Drawing" classes, that are taught in the Specialty 5110800 - "Fine Arts and Engineering Graphics" in higher educational institutions, have been observed.

The method of comparisons has been used to compare the educational literature on the subject "Drawing", the methodological foundations of the formation of programmed electronic educational-methodological complexes, and didactic teaching opportunities.

On the basis of the experimental method, normative documents of higher education have been studied, experimental lessons have been organized and conducted on the subject "Arts" for the students of group 12-1TS-19 (TS (abbr. form of "Tasviriy san'at") - Fine Art) in the specialty of 5110800 - "Fine Arts and Engineering Graphics", where virtual stands based on the programmed electronic educational- methodical complex and software means have been used..

STATEMENT OF THE PROBLEM

Currently, in the process of conducting practical lessons on the subject of "Drawing", the following issues cause a negative impact on the acquisition of the subject: lack of proper material-technical base (lack of equipments for practical exercises); inapplicability and inconsistency of existing ones with innovative requirements, which are considered to be the elements of professional development of the teachers of higher educational institutions based on state standards and the fulfilment of qualification requirements.

In the process of training future teachers of the subject of Fine Art the concept "virtual", from a methodological point of view, renders a broad meaning, by the use of which high efficiency can be achieved in acquiring the subject "Drawing" while conducting practical classes.

The main problem of using software in "Drawing" classes today is the lack of sufficient development of methodological foundations. And those that have been worked out are not popularized and are not used in practical lessons in the process of education.

RESULTS

It is possible to solve this problem by creating a virtual educational system, organically combining the tools designed to teach the subject "Drawing", such as textbooks, tables, videos, programmed electronic educational-methodical complexes, slides and others.

The database of virtual information related to education consists of informational materials that make it possible to illustrate each registered topic [7;8].

The information of the multimedia catalog is related to certain topics based on the curriculum of the subject, the teacher can use the same multimedia object as a visual aid to explain various topics [9]. The use of visuals in practical classes of the subject of "Drawing" serves to make the learning process more effective, because the content and basis of this subject consist of pencil graphics, it is associated with a phased state of movement, the process of imaging and objects [10].

Below are some pictures from the practical classes conducted virtually (Figure 1).

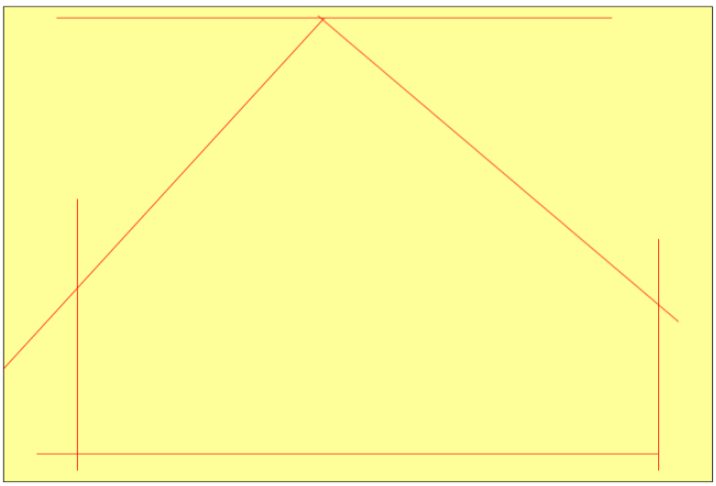

Figure 1. Virtual process of learning the correct placement of geometric objects in the format

To observe the virtual process depicted in this figure of teaching the representation of the image of geometric bodies in a "Drawing" class, the left mouse button is clicked on the "Start" point. The imaging process is displayed step by step: Proper placement on the surface of the format, a still life picture of gypsum sockets. The next process: click the left mouse button on the "Press" button once, and boundary lines of the proper placement in the format appear. In this process, you can see the placement of the still life picture in the format.

Also in the following process the left mouse button is once clicked on the “Start” button and the still life of geometric objects is depicted through assisting lines (Figure 2).

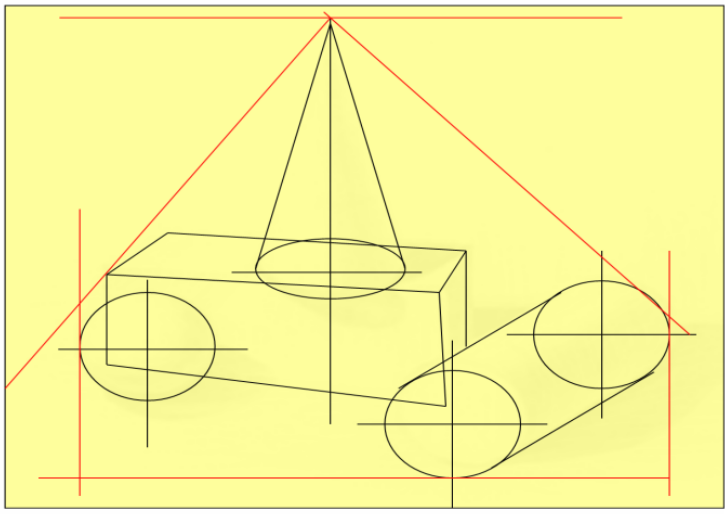

Figure 2. The process of constructing the image of geometric objects.

In the next process, those steps are repeated once again and summarizing the still life picture consisting of geometric bodies, we get a clear image of it. (Figure 3).

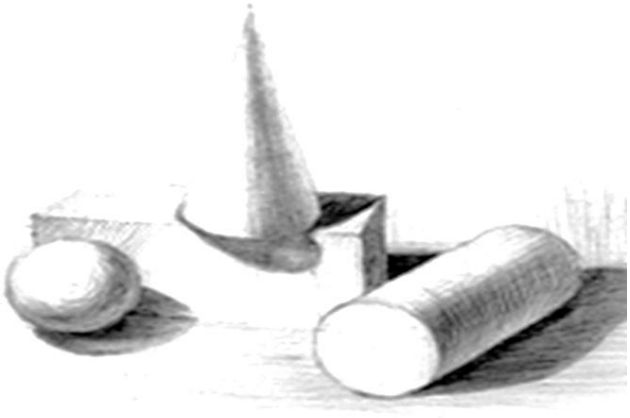

Figure 3. A clear image of geometric objects by joining together

In virtual practical classes, future teachers of Fine Arts must perform several stages of depicting objects, proceeding not only from the structure, volume, spatial imagination, but also using special technological methods that make it possible to familiarize with the integrity of the object and see its small details. For example, it will be reasonable to use flash-animation program [10].
The content of this virtual practical lesson is intended to educate future teachers of Fine Arts.

Curriculum 5110800 – Fine Arts and Engineering Graphics (Future Teachers of Fine Arts) has been developed on the basis of the content of the curriculum of "Drawing" course as a part of the professional block of subjects. The theoretical foundations of the effectiveness of using virtual practical training in the educational process are presented in it.

CONCLUSIONS

In conditions of insufficient virtual practical lessons conducted on the subject "Drawing", it is possible to improve the methodology for the formation of knowledge, skills and qualifications of students.

The worked out content of virtual practical lessons of "Drawing" consists of rather large database of video-animation and multimedia files. The teacher can use them to develop students' imaginations up to the required level and it is recommended that they be used to organize the lesson process effectively.

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