_____

Digital Tools in Teaching Practice

Kurbanova Nazira Nizomiddinovna
e-mail:nazira.kurbanova@yandex.ru
Teacher of the department of Methods of preschool education
Termez State University
Termez Uzbekistan

Annotation. The paper considers the need to acquire knowledge in the field of computer science from teachers of musical disciplines. Digitalization of music education and the use of modern digital instruments, keyboard synthesizer and music computer, multimedia equipment, tablet technologies are tools of the digital environment that allow teaching music disciplines at a higher level, not to the detriment of traditional classical education. There is a need to introduce the course "Music Informatics" into the system of professional training of teachers-musicians.

Keys words: music informatics,music and computer technologies, advanced training, digital instruments, electronic

At the moment, the need for implementation has been proven all over the worlddigital information technologies in all spheres of human activity. The inevitability of a new culture of teaching, which requires not only knowledge of its subject, but also the ability to navigate in the modern information space, own new innovative digital technologies, know their capabilities and form the methodology of the learning process using high-tech tools and digital tools.At the end of the XX century, new musical teachers opened upopportunities in connection with the development and implementation of digital tools in the learning and creativity process. Music and computertechnologies (MKT) have revealed new perspectives of music teaching,they allowed us to bring musicians to a higher level of creativity and to form a higher level of information competence in them. In musical practice, a new class of instruments built on the basis of digital technologies has become widespread: electronic keyboard synthesizers (EX), tablets, multimedia computers, which differ in significant expressive resources and capabilities: all this opens up broad prospects for their use in music education [2; 3; 4].The rapid digitalization of society has identified one of the problemsin music education, there is a formalism of musical informatics knowledge of music teachers. There was a need to create such a methodology for teaching music informatics, which will be based on the MCT and meet the new requirements for the level of professional training, thereby contributing to improving the operational knowledge of music teachers in the field of information technology, as well as its inclusion in the system of professional development of music teachers.

The methodology of teaching music informatics based onthe use of digital electronic musical instruments and MCT integrated into the digital educational environment of professional and creative activity of music teachers, in turn, is aimed at overcoming the formalism of knowledge in the field of information technology.

In the study, we proved that in the process of mastering digital tools (MKT, EX, digital educational environment), teachers are given the opportunity not only to diversify the pedagogical process, but also to increase the volume of special information (without losing the quality of its assimilation), which is presented using new forms and techniques. During the experiment, we found that the content of music informatics education should be built on the basis of interdisciplinary integration and the formation of a unified knowledge system, taking into account the professional and creative activity of the teacher.The thematic plan formed by us determined that the methodology of teaching music informatics will include the use of MKT and EX. It is revealed that the methods and means of digital technologies (MKT, EX) have been developed taking into account the professional activities of teachers of musical disciplines using a digital educational environment. If these conditions are met, then the methodology of teaching music informatics to music discipline teachers using MKT, EX and digital environment will contribute to obtaining effective knowledge

_____

_____

in computer science and overcoming the formalism of knowledge in the field of information technology. We have carried out a retrospective analysis of the discipline "Music Informatics" at various levels of education (primary, secondary vocational education and higher education) in Russia and abroad in order to form an up-to-date content content of the discipline corresponding to modern educational trends. In the process of research to identify the causes of the appearance of the formalism of knowledge, we examined the works of Russian scientists M.N. Skatkin, B.P. Esipov, R.M. Lemberg, A.I. Gromtseva, who raised this problem in pedagogical theory and practice in the previous century:under what conditions the external form of knowledge breaks away from their internal semantic content [1]. Scientists long before the advent of digital technologies proved the role of visual aids and experiments that contribute to the visual and figurative sensory perception of knowledge. A.I. Gromtseva in her writings considered formalism in knowledge as part of the education system, which was caused by a number of reasons, including the lack of:
☐ differentiated learning;
☐ individual approach to the student;
☐ creative freedom;
☐ various forms and methods of training;
A.I. Gromtseva in the article "The formation of a new type of school is the mainway to combat formalism in education" writes: "What attracts us in this "vision" of the school of the future is the shift of emphasis from the school of teaching to the school of personality formation in all areas of its activity." A "new level of learning", to which formalism is alien, since it is based on a new position of the student as a whole, in the learning process – "the position of an active subject organizing his education" .

When analyzing formalism at the present time, its nature and ways

of course, it is impossible to bypass foreign practice, where much attention is paid to the self-education of teachers with the help of information and communication technologies. The International Society for Informatization of Education has developed the following National Educational Standards and technologies of professional information and communication competence of teachers: and apply knowledge and skills in the field of information technology; training to support the various needs of students, the ability to apply modern tools and technological resources in the context of the curriculum; technological means; to use these technologies in everyday life, to increase the level of professional competence;values of the use of information technology.Today, the position of an active organizer of the educational spaceis occupied by the teacher who, using digital technologies,means of information and communication communications, tools of the modern digital environment, MCT, EX, and is able to build his learning environment .

We took into account that the views of the teacher-musician on modern music have changedthe pedagogic, who became the bearer of a new pedagogical thinking [2], was given the opportunity to design his pedagogical activity differently. At the moment, the teacher-musician is already in the digital environment that has formed around him as a result of the development of digital information technologies. Music teachers no longer deny digital instruments, but they do not yet fully understand their significance and possibilities of application in pedagogical practice.

During this period, when using distance education,the demand for knowledge in music informatics and information technologies has become especially relevant. The inability to organize work with the use of digital technologies, ignorance of methods and modern means of information processing led to the readiness to acquire knowledge in this field. To understand the essence and significance of information in the development of modern society, to use modern technical means and MCT to solve communicative tasks; to know the basic methods, methods and means of obtaining, storing, processing information; to acquire skills of working with MCT [1] as a means of creating and processing musical information, all of the above knowledge and skills are necessary for a teacher-musician to conduct pedagogical activities in the conditions of the "digital age" [2].To organize classroom and distance work, a modern teacher-musician needs knowledge and skills of working with digitaltools. The inclusion of "multimedia", "hypermedia", distance learning systems, "electronic" textbooks in the learning system, the formation of electronic tests to test students'

_____

_____

knowledge, orientation in software, knowledge of modern teaching methods and technologies using digital tools – all this is necessary for a teacher of musical disciplines to organize the learning process.The use of MKT, modern digitaltools in the learning process [3] allows a new approach to the learning process,expands the range of educational tasks, maintains a high level of motivation at all stages of training [4]. Qualified, informal knowledge of the possibilities of modern information technologies and MKT in music, possession of appropriate tools for the development of multimedia programs for educational purposes, which allow the educational process to be conducted at a level that meets the needs and requirements of students of modern schools, increase the operational knowledge in the field of information technology as music teachers, and their trainees. All of the above contributes to overcoming the one-sided, highly specialized orientation of the musicaland educational process as a whole .

Literature

1. Alpatova, A. S. Folk music culture. Archaic : textbook for SPO / A. S. Alpatova ; ed. by V. N. Yunusov. — 2nd ed. — Moscow : Yurayt Publishing House, 2019. — 247 p.
2. Gorbunova I.B. Information technologies in music: studies. manual. Vol. 1: Architectonics of musical sound. 2009. – 175 p.; Vol. 2: Musical synthesizers. St. Petersburg: Publishing House of A.I. Herzen RSPU. 2010. – 205 p.
3. Kagan, M. S. Music in the world of arts : studies. manual for universities / M. S. Kagan. — 2nd ed., reprint. and additional — M. : Yurayt Publishing House, 2018. — 230 p.
4. Musical Encyclopedia / Editor-in-chief Yu.V. Keldysh. Volume 5. Moscow, 2019.

_____