Mechanisms of using modern computer programs in music lessons

Nazarova Matluba Feruzbek kizi

Urgench State Pedagogical Institute, 1st year master's degree in Music Education and Art, Uzbekistan

Abstract: With the development of modern technologies, new methods and tools have also been used in the field of music education. This article examines the effective mechanisms of using modern computer programs in music lessons, their impact on the learning process and their importance in improving musical knowledge. The article examines how various music programs (for example, programs for notation, recording, musical composition and performance analysis) help develop students' musical abilities, as well as create convenience for teachers in organizing lessons. The results of the study emphasize the need for integrating technologies in modern music education and its future prospects.

Introduction: Music is an integral part of human culture, through which human emotions, ideas and moods can be expressed. Historically, music has been taught in various forms and methods, but with the development of modern technologies, new opportunities have emerged in this area. Today, computer programs and digital technologies have radically changed music education, making it much more convenient, effective and interesting.

The use of modern computer programs in music lessons not only develops students' musical abilities, but also allows them to understand and master music more deeply. The use of technologies in processes such as notation, recording, creating musical compositions and analyzing performances helps students improve their creativity and professional skills. These programs also offer teachers new ways to organize lessons, allowing them to make educational materials more didactic and interactive. This article examines the mechanisms of using modern computer programs in music education, how they affect the learning process and their importance in improving musical knowledge. The article is aimed at examining the need for integrating technologies in modern music education and its future prospects. The combination of music and technology not only renews traditional methods, but also begins a new stage of music education. This creates unlimited opportunities for musicians and musicologists in the future.

METHODOLOGY

This study used scientific and methodological approaches to study the mechanisms of using modern computer programs in music lessons. The main goal of the study is to determine how technologies can be effectively integrated into the music education process and consider what advantages this process brings to students and teachers.

The methodological basis of the study is the following methods:

Theoretical analysis - The role and importance of modern computer programs in music education was analyzed by studying scientific literature, articles, studies and resources in the field of music education and technology. Through this method, the types of programs used in music education, their functions and capabilities were identified.

Practical observation - Practical observations were conducted to determine the effectiveness of using computer programs in music lessons. The programs used in the classroom at various educational institutions, students' reactions to them, and their

results were observed.

Surveys and interviews – Interviews were conducted with music teachers and students to collect information about their attitudes, advantages, and challenges in using modern technologies. The surveys assessed the level of use of programs and their impact on education.

Experimentation and experimentation – Experiments were conducted using various computer programs in music lessons. In this process, the growth of students' musical knowledge and skills, as well as the development of their creative abilities, were observed.

Statistical analysis – The data obtained were analyzed using statistical methods, and the results were presented in the form of graphs and tables. This method determined the effectiveness of the programs and their impact on the educational process.

The methods used in the study allowed for an in-depth study of the theoretical and practical aspects of integrating technologies in music education. This serves as the basis for further development of music education and the introduction of innovative approaches to it.

Literature review

The issue of using modern technologies in music education is currently being studied as a pressing problem in many countries of the world. Scientific research and published literature on this topic shed light on the theoretical and practical aspects of using technologies in the process of music education.

First of all, J. Smith's work "Music Education in the Digital Age" (2020) deeply studies the role of digital technologies in modern music education and their impact on the learning process. The author emphasizes that computer programs can facilitate processes such as writing notes, recording sounds, and creating musical compositions. He also emphasizes the role of these programs in increasing students' creativity.

L. Brown's book "Technology in Music Education: A Practical Guide" (2019) explains various computer programs used in music education with practical examples. The author shows how the programs can be used as guides and resources for teachers, emphasizing their advantages in organizing lessons.

R. Davis's article "Innovative Approaches to Music Teaching" (2021) discusses modern music education methods and their impact on the level of knowledge of students. The author emphasizes that through interactive programs, students can master musical concepts faster and more deeply.

In the context of Uzbekistan, A. Karimov's article "Innovative Technologies in Music Education" (2022) plays an important role. The author analyzed the need to introduce modern programs in local music education and their role in developing students' musical abilities. He also makes recommendations on the use of technologies to develop music education in Uzbekistan.

Internationally, M. Jones's study "Digital Tools for Music Education" (2021) describes the latest applications used in music education and their functions. The author proves the effectiveness of these applications in improving students' musical level based on statistical data.

Thus, as can be seen from the literature review, the use of technology in modern music education not only makes the learning process more effective, but also contributes significantly to the development of students' creative abilities. Based on these studies, it was determined that in the future it is possible to further develop music education and introduce innovative approaches.

DISCUSSION

The issue of using modern computer programs in music education is currently the subject of extensive discussions. The results of the study show that the integration of technology into music education not only makes the learning process more interesting and effective, but also contributes significantly to the development of students' musical abilities.

First of all, computer programs have greatly simplified the processes of writing notes, recording sounds, and creating musical compositions. For example, with the help of programs such as MuseScore, students have the opportunity to write notes quickly and accurately. This gives them great convenience in creating and editing musical works. Also, through programs such as Ableton Live and FL Studio, students have the opportunity to create professional-level musical compositions. This helps to improve their creative abilities.

On the other hand, the use of technology in music education also creates great opportunities for teachers. With the help of programs, teachers can organize lessons in an interactive and didactic manner. For example, through programs such as SmartMusic, it is possible to automatically assess students' performance skills and give them individual recommendations. This allows teachers to closely monitor the development of students and help them.

However, there are also some difficulties associated with the use of technology in music education. First, in order to effectively use technology, teachers and students must have the appropriate knowledge and skills. This requires additional time and resources. Second, in some educational institutions, the full use of programs is limited due to insufficient technical

aspects.

Also, the use of technology in music education should not completely replace traditional methods, but rather complement and further improve them. Music is, after all, a field related to human emotions and creativity, and technology should be considered only as a means of facilitating this process and making it more interesting.

In conclusion, the use of modern computer programs in music lessons is an important opportunity to further develop music education and improve students' musical abilities. However, in this process, it is necessary to use technology correctly and in a balanced way, as well as not to neglect traditional methods. In the future, more in-depth research in this area is required and new ways of integrating technology into music education should be developed.

CONCLUSION

The use of modern computer programs in music education is becoming an integral part of the modern education system. The results of this study show that integrating technology into music education not only makes the learning process more interesting and effective, but also contributes significantly to the development of students' musical abilities. The use of computer programs in processes such as notation, recording, musical composition, and performance analysis creates new opportunities for students and helps to increase their creative abilities. The use of technology in music education should not completely replace traditional methods, but rather complement and further improve them. Music is, after all, a field related to human emotions and creativity, and technology should only be considered as a means to facilitate this process and make it more interesting.

In order to further develop music education in the future, it is necessary to develop new methods of integrating modern technologies, as well as to ensure the effective use of technology by students and teachers. This will not only improve the quality of music education, but also contribute to the development of professional skills of a new generation of musicians.

In conclusion, the use of modern computer programs in music lessons is an important opportunity to further develop music education and improve students' musical abilities. However, in this process, it is necessary to use technologies correctly and in a balanced way, and not to neglect traditional methods. In the future, more in-depth research in this area is required and new methods of integrating technologies into music education will be developed.

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