Exploration and Research on Innovative Strategies of Music Education in Colleges and Universities Supported by Multimedia Technology

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Abstract: Multimedia technology provides a broad space for innovative music education methods and enhancement of learning effects. In order to promote the reform of music teaching in colleges and universities, it is proposed to explore the innovative strategies of music education in colleges and universities under the support of multimedia technology. First of all, the basic characteristics of the conventional college music teaching mode are analyzed, and it is pointed out that the current traditional college music teaching is characterized by authority, protocol and mechanics. Then from the perspective of new media, the current music teaching in colleges and universities is analyzed, including the expansion of learning resources, the transformation of distance learning mode and the promotion of interdisciplinary integration. Finally, specific realization strategies are proposed for music teaching in colleges and universities, including the strengthening of infrastructure construction, the promotion of the transformation of teaching methods and the enhancement of new media teaching cognition. The aim is to utilize the advantages of new media technology to improve the classroom feedback effect of students and cultivate composite music talents.

Keywords: multimedia; college music; teaching strategies; innovative methods

1. Introduction

New media is a comprehensive media form based on the development of newspapers, radio, television and other media, and the rapid development of new media has also vigorously promoted the transformation of teaching links in different fields in colleges and universities. How to rapidly promote the effective transformation of music teaching mode in colleges and universities in the era of new media has also become the current educational task. Literally, music and education are two parts of music education[1]. In music education, teachers combine the two elements to form a whole through certain methods, which is the word "teaching". In addition to the above two aspects, aesthetics is the most important and fundamental aspect of music, which is the basic behavioral characteristic of music education. Therefore, aesthetics has become an important component of music education. First of all, in terms of music, music is an art that uses sound as a carrier to convey to human beings, with the purpose of arousing various emotional reactions and emotional experiences in human beings. Music can make people feel happy, therefore, music is one of the important art forms that can make people relax. Music is present in various aspects of our daily lives. As the human body undergoes processes such as association, imagination, and shaping of the mind after receiving music, it further leads to changes in human emotions and emotions. Therefore, music is also a living emotional art. From ancient times to the present, music has become an important means for rulers and leaders to provide spiritual enlightenment and psychological suggestion to the people[2]. That is to say, this unique and charming art of sound can play an important role in influencing the psychological development and personality education of human beings. Education means a kind of activity that can shape the human mind, aiming at the development of knowledge and ability, and there is a difference between the broad and narrow sense, the difference between organized and unorganized, the difference between centralized and fragmented, and the difference between the forms. Education can be divided into two types: explicit education and implicit education, of which implicit education is mainly manifested in school education. There are many forms of education, such as social education, family education, school education, initiation education and values education. The most important of them are school education and social education. In a narrow sense, education is the teaching of knowledge and skills by the subject of education to the educated group, the cultivation of ideology and morality, and the movement of
intellect and physical strength, which ultimately make the educated group become talents in line with the needs of society. From the sociological point of view, education is a kind of social activity that enables the educated to acquire certain experience or get certain results in the process of receiving education through certain media. It specifically refers to all kinds of education received during the school years. In fact, the development of music theory and practical skills are complementary to each other, no theory to lay a good foundation, then the effect of practical training will be greatly reduced, resulting in students’ music learning can not achieve the desired goals. In this regard, colleges and universities must take the teaching of music theory courses as the core content of music education, increase the theoretical learning guidance for students, encourage students to use music theory to guide the practice, and verify the theory in practice, in order to improve the students' professional ability and musical literacy[3] .

2. The basic features of music education in colleges and universities under new media technology support

The pre new media era generally refers to the traditional media era, where music education in Chinese universities is in a relatively traditional educational mode. The basic characteristics of music education in higher education are shown in Figure 1.

First of all, the teaching of music teachers has a great deal of authority and protocol. In the pre-new media era, teachers' music education is more prominent in a kind of demonstration, spreading the relevant knowledge in a kind of solidified image and form, and students' learning focuses on imitation, and they learn the relevant knowledge in the state of familiarity and mastery[4] . Teachers gradually build up the authority and protocol of music teaching on the basis of optimizing their behavior and standardizing their classroom practice. At the same time, the music teacher's teaching is strictly purposeful, planned and systematic, with a syllabus based on the music textbook. Music teachers are the organizers and educators of music teaching activities in schools, and the content, quality and effectiveness of school teaching are all realized through the work of music teachers. Therefore, music teachers are the prophets, while students are the unknowns who are in the period of growth and development and need guidance from teachers. What and how music teachers teach will directly affect students' aesthetic and knowledge and skill levels. Therefore, music teachers play a leading role in the teaching process[5] . It can be seen that at this stage too much emphasis is placed on the skills and techniques of the music discipline, and take the old-fashioned old artists with apprenticeship "direct teaching" method mostly, the main role of student learning has not been given enough attention and play, the enthusiasm of the students, the initiative has not been fully mobilized.

Secondly, students' music learning is somewhat mechanical and passive. In the era when new media are not widely used, music education or music learning from the students' point of view is inevitably characterized by a mechanical nature, but this does not mean that mechanical learning has serious negative effects. Objectively speaking, for music learning, from the form to the content of the repeated mechanical training can deepen the understanding of the specific knowledge of music and proficiency, just for the more personalized students, uniform standards means that only some people can get the expected teaching results, some students are not active enough to work hard or for some specific music
knowledge has a broader thinking about the idea, it is very difficult to get timely and accurate control. It is difficult for students who are not motivated enough or who have broader ideas about specific musical knowledge to gain timely and accurate control. At this stage, most students are instinctively more dependent on the music teacher[6].

Once again, the traditional medium makes music education stick to the traditional way of teaching. Music textbook is an important carrier for music teachers and students to learn music knowledge, music textbook reflects the grade and level of music education, at the same time, a music textbook is also a special bridge between teachers and students. Teachers and students agree that textbooks are an important prerequisite for the successful development of traditional music education. Traditionally, the content of music textbooks has thinking, science, art, and transmissibility, but this kind of paper media will also constitute a certain limitation to students' music learning, especially for the special subject of music education, too much emphasis on paper textbooks is bound to be far away from the essence of music[7].

3. The Opportunities of New Media Technology for Music Education in Colleges and Universities

3.1 Expanded learning resources

First, new media technology enables music education to utilize multimedia resources, such as audio, video and images, to enrich teaching content. Students can watch demonstration videos and listen to audio demonstrations to understand and master music skills, performance styles and music theories more intuitively. Second, colleges and universities can offer open online courses or self-designed online courses for students to learn remotely. Music education is no longer restricted to traditional classrooms and school territories, and students can freely choose their learning content according to their own time and place, improving flexibility and convenience[8]. Third, music education is prompted to utilize digital music libraries and databases. Students can access a large number of musical works, scores and musical materials through online music libraries and sheet music databases, enriching learning resources and expanding the field of learning. Fourth, it facilitates the integration of music education with other disciplines and expands interdisciplinary learning resources. Through the online learning platform, students can contact and learn knowledge in the fields of science, technology, history, culture and other fields related to music, enriching their musical vision and comprehensive ability of disciplines. Fifth, social media platforms and online music communities provide a platform for communication and sharing of musical works among students. Students establish music education communities through social media platforms to share their composition and performance experiences, learn from and collaborate with each other, and expand their learning networks and resources.

3.2 Enabling distance learning

New media technology allows music education in colleges and universities to no longer be limited by traditional classroom time and location, as students select resources scientifically through online courses and learning platforms, adapting to their individual learning habits and schedules. Through online live streaming and video conferencing tools, students can receive guidance and counseling from remote music teachers. Teachers can also provide personalized teaching support through real-time video conferencing with students for music performance guidance, skill explanation and feedback, breaking through geographical restrictions. Third, it provides opportunities for sharing resources and collaborative performance[9]. Students can share their performance works, scores and compositions on online music communities or collaborative platforms, and collaborate with other students to perform, improvise and learn from each other, so as to stimulate creativity and the spirit of cooperation. Fourthly, teaching examinations and educational assessment are conducted through remote means. Students submit performance pieces or participate in music theory exams via online video or audio, and teachers grade and provide feedback on students' performance through remote assessment tools. Fifth, provide learning communities and discussion platforms. Through online forums, social media and collaboration tools, students can share learning experiences, ask questions and participate in discussions, which facilitates more learning inspiration from interaction[10].

3.3 Promoting interdisciplinary integration

Colleges and universities can design interdisciplinary music courses that combine music with science, technology, math, art history and other disciplines to broaden students' disciplinary
perspectives and deepen their understanding and application of music. Teaching resources and experiences are shared with teachers and researchers of other disciplines through new media platforms. Music education can draw on the teaching methods, practice cases and innovative ideas of other disciplines to promote the diversity and comprehensiveness of music education\(^{[11]}\). Third, the interactive and collaborative nature of new media provides opportunities for music education in colleges and universities to carry out interdisciplinary cooperation programs. Fourth, new media platforms have become platforms for interdisciplinary learning. Through online learning platforms and social media, students can participate in interdisciplinary discussions, project collaborations and creative activities, learning and exploring with classmates from different disciplinary backgrounds, which is conducive to the cultivation of integrative thinking and collaborative abilities. Fifthly, the integration of music education and technology is promoted through the use of new media to carry out cross-learning and innovative practices of art and technology. For example, students can learn music programming and music technology application, and utilize software and hardware tools for music creation and performance\(^{[12]}\).

4. Innovative Strategies for Music Education in Colleges and Universities Supported by Multimedia Technology

4.1 Improve the new media teaching hardware equipment support in colleges and universities

Whether the hardware supporting equipment is sufficient in college music education is of vital significance, enough supporting equipment can also promote teaching prospects, so it is necessary for colleges and universities to focus on perfecting the new media teaching equipment supporting, so as to ensure that the quality of education work and the level of enhancement\(^{[13]}\). The main body of education needs to raise the importance of new media teaching hardware equipment, fully clear new media in the music teaching in colleges and universities in an important position, so that the procurement of hardware equipment to make a perfect planning and design, so as to ensure that the hardware supporting equipment is sufficient. In practice, the first task is to improve the new media hardware equipment in colleges and universities, for the new media equipment within the scope of the university to carry out a full range of research to understand the new media equipment, for some of the need for renewal and replacement of the new media equipment types missing in the various teaching links to carry out a full range of statistics, and to focus on strengthening the new media teaching hardware equipment in colleges and universities to purchase financial budgets, so as to ensure that new media teaching hardware equipment. The financial budget of the procurement stage should be planned carefully to ensure that there are enough funds to support the purchase of new media hardware equipment\(^{[14]}\).

4.2 Promoting changes in teaching methods

Under the background of new media, accelerating the transformation of teaching methods is the most important thing, in this process, we need to analyze and think about all aspects and processes of college music teaching, so as to promote the innovative reform of teaching methods based on the new media, so as to achieve good teaching results, and to cultivate the comprehensive ability of students in music. In practice, teachers can promote the transformation of music teaching methods from the teaching concept, teaching mode and other aspects. First of all, teachers need to change the traditional mode of purely focusing on music theory knowledge and music skills teaching in a narrow way, and gradually in the development of theory teaching and music skills teaching at the same time to give students to increase the opportunity to practice, so that the students in the consolidation of the theoretical foundation of music at the same time have a certain music practice ability. At the same time, teachers also need to take into account the cultivation of students' musical literacy, and gradually exercise the music aesthetic ability of the student body, so that students can appreciate the music works while consolidating the basic knowledge of music, so as to achieve the goal of exercising the comprehensive ability of the music of the student body in colleges and universities. Through the above operation process, it can also promote the change of teaching concepts, the formation of teaching concepts to promote the comprehensive development of students as the main body, so as to make full use of the new media in the teaching process to exercise the student body's music literacy, professionalism, and thus effectively promote the innovation of the music teaching method in colleges and universities\(^{[15]}\). In addition, educational subject also need to pay attention to the new media based on the transformation of the teaching mode, through the transformation of the teaching mode to give
students a new music learning experience, to stimulate the subjective initiative of students to learn. In the traditional classroom, teachers often use the way of playing or narrating to bring students to understand the relevant music knowledge, and this way has certain limitations, which will also lead to the students' understanding of music knowledge is not thorough enough. At this stage, teachers can leverage new media technology to guide students towards a deeper understanding. They can create appropriate scenarios during classroom teaching and encourage students to analyze music content in greater depth using new media. This approach enables students to develop a profound comprehension of music art through the analysis of musical works. Gradually, it helps students achieve integration and effectively cultivates their aesthetic abilities. Ultimately, this fosters the reform and innovation of music teaching in colleges and universities.

4.3 Strengthen the cognitive understanding of new media teaching

In music education in colleges and universities, the professional ability and level of teachers are crucial, and whether they can comprehensively utilize new media technology to carry out music teaching also depends on their knowledge of new media. Therefore, in order to promote the effective optimization of music teaching, it is necessary to strengthen the understanding of new media by the teacher group, so as to improve the professional ability of the teacher group based on the new media perspective, thus laying a good foundation for the cultivation of composite music talents in colleges and universities. First of all, college music teachers need to constantly strengthen the understanding of new media, pay full attention to the use of spare time to learn new media technology, understand new media technology, analyze how to use new media technology to develop music teaching. Secondly, colleges and universities should provide music teachers with the necessary training, in which a series of professional knowledge is taught to the teachers' groups, so that the teachers can pay full attention to the use of new media in music teaching and carry out online activities related to music teaching by building a new media teaching platform. The above practice not only can effectively innovate the application of new media technology, but also can cultivate the awareness of new media teaching for the teacher group, so as to ensure that the music teaching in colleges and universities can realize the reform and innovation based on the perspective of new media, and realize the effective cultivation of the comprehensive ability of music for the student group.

5. Conclusion

Music has an important significance in the life of children and even adults. Music education has an important functional significance in improving the overall quality of human beings, as well as perfecting the personality and other aspects, and it is very serious and noble to take up the heavy responsibility of music education in the future. Of course, with the development of the times and the progress of science and technology, music education, especially in secondary vocational colleges and universities, as an important part of campus culture, should pay attention, push the boundaries of innovation, to find a suitable for the development of the times and the needs of the students of the good education concepts and programs.

References


