

# Construction of Interactive Platform for Three-dimensional Teaching Materials of Music Courses in Colleges and Universities

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**Keywords:** Music Course; Three-dimensional Teaching Material; Network Platform

**Abstract:** The construction of three-dimensional teaching materials for university music course is the inevitable trend of the construction of modern university music course, which will have a far-reaching impact on the teaching mode of university music course at this stage. The rapid development of information technology, multimedia technology and network technology has also brought new opportunities for the teaching of contemporary university music courses. The construction of three-dimensional teaching materials is not smooth sailing, it also has many practical problems that need to be further explored. Education departments and publishing industries all over the country have launched the development and construction of three-dimensional teaching materials for university music courses. The construction of network platform is the focus of the three-dimensional curriculum construction of colleges and universities, and it is also one of the connotations of the three-dimensional textbook construction. As a three-dimensional textbook of college music curriculum that is suitable for the teaching reform of university music curriculum, it has shown continuous development and perfection. As the ideal teaching reform, its current situation and future trend deserves our attention.

## 1. Introduction

In recent years, the relevant policies issued by the Ministry of Education have clearly defined the educational objectives and concepts of public art courses. The importance attached to public art education in Colleges and universities across the country has been greatly improved [1]. The rapid development of information technology, multimedia technology and network technology has also brought new opportunities for the teaching of contemporary university music courses. Three-dimensional textbooks are based on modern educational ideas and modern information network technology platform. Based on the traditional paper textbooks and centering on the subject curriculum [2]. A collection of structurally matched teaching publications with multi-media, multi-form, multi-purpose, multi-level teaching resources and various teaching services. The construction of three-dimensional teaching materials is not smooth sailing, it also has many practical problems that need to be further explored [3]. The education departments and publishing industries in various places have launched the development and construction of three-dimensional textbooks for university music courses. The three-dimensional curriculum construction is an important part of the university's teaching infrastructure construction and teaching reform project [4]. It is of far-reaching significance to deepen the reform of teaching, comprehensively improve the quality of teaching and the quality of personnel training, and give full play to the demonstration and radiation effects of the three-dimensional curriculum.

The construction of three-dimensional textbooks in colleges and universities has been officially put forward for more than ten years, and has made considerable progress in both theory and practice. Further clarify the concept and form of the three-dimensional textbook. The three-dimensional textbook greatly improves the utilization of information technology and network technology in the teaching of university music courses [5]. Just digitize and multimediaize the content of paper textbooks, plus the video of the teacher's lectures. Such three-dimensional textbooks can no longer meet the needs of current college teaching reform. The network platform can create a convenient teaching communication channel to achieve learner self-learning and distance learning [6]. The three-dimensional curriculum network platform in Colleges and universities has the characteristics

of the times. It can be represented as a website of course resources that can be shared externally and an auxiliary teaching website that can participate in daily teaching internally. Although there are many teaching resources on the network teaching platform, the corresponding teaching activities are still very few, which is not consistent with the original intention of the three-dimensional teaching material construction [7]. As a three-dimensional textbook of university music course, which is suitable for the reform of university music course teaching, has shown a trend of continuous development and improvement in recent years. Its ideal of teaching reform, its present situation and future trend deserve our sufficient attention.

## **2. The Connotation of Three-dimensional Course Construction and Three-dimensional Textbook Construction**

Multimedia technology can integrate pictures, sounds and words visually, which is helpful to create vivid and specific contexts for students. Under the stimulation of real, vivid and effective context, students' learning efficiency will be greatly improved. For learners, the network platform opens up high-quality curriculum resources, and learners can use them at any terminal of the campus network. The construction of three-dimensional textbooks in the network era is not only the construction of textbooks, but also involves the design of teaching activities at the level of curriculum concept, curriculum type, curriculum objectives and even curriculum implementation. Diversification of teaching application. Its purpose is to change the drawbacks of traditional textbooks in the past that only provide a single teaching content. In turn, it provides a total solution for teaching resources to meet the teaching needs to the maximum [8]. The traditional textbooks focus on the duplication of knowledge, and the content of the textbooks is relatively old, and it is difficult to mention the students' interest in learning. The characteristic learning resources should be the soul of the three-dimensional course network teaching platform. It is necessary to highlight the characteristics and to show the level of scientific research and teaching of the three-dimensional curriculum of colleges and universities.

At present, the three-dimensional curriculum construction of college music courses in China mainly adopts the combination of paper textbooks, CD-ROMs and online learning halls. As an important part of the three-dimensional textbook, electronic textbooks have been widely promoted in various universities and publishing circles in recent years, but the development and application speed in the literature retrieval class is still relatively slow. This method can no longer meet the students' needs for teaching at this stage. Course teaching activities should be organized around capacity development, but capacity development requires the necessary knowledge reserves. Therefore, in the selection of curriculum content, knowledge and competence courses emphasize the equal importance of knowledge and competence, while emphasizing that knowledge organization should serve for capacity-building. As a fundamental teaching tool, paper textbooks play a central role in the whole textbook system. Three-dimensional teaching material is a new thing. It is not only a symbol of the modernization of teaching means in the high-tech era. More importantly, it is the way to realize the informationization and networking of teaching. As a way to integrate educational and teaching resources and optimize the allocation of educational elements.

The construction of three-dimensional curriculum resources support platform in Colleges and universities is mainly based on the requirements of relevant documents of the Ministry of Education, and at the same time, all contents of curriculum construction are reasonably classified. In teaching, students' social development is mainly achieved through communication and cooperation. The communication and cooperation between students and students, students and teachers are conducive to students' social development. The interactive relationship of students' social development is shown in Figure 1.

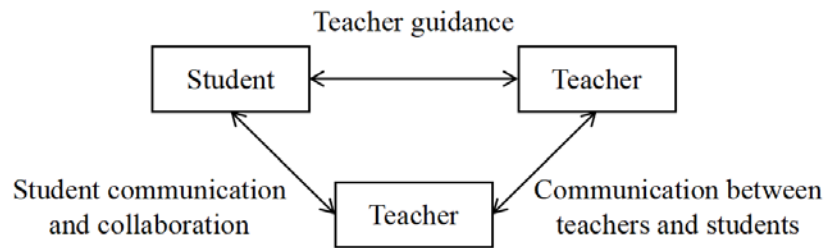


Fig. 1 Student social development interaction

Many colleges and universities have actively introduced three-dimensional textbooks, but the teaching effects have not achieved the expected results. Ability training is the fundamental value pursuit of the knowledgeable curriculum. The curriculum design and curriculum content organization need to be organized around capacity development. Although many colleges and universities have stipulated the time for students to learn online, due to the serious content repetitiveness, many online textbook exercises are the original books, which makes students unable to raise interest in learning [9]. The goal of curriculum is often devoted to the teaching of knowledge system, but ignores the achievement of ability goal, so it deviates from the original intention of philosophy curriculum to a great extent. It is the fundamental task of philosophy course to cultivate students' thinking logic and methods and to let them accept the edification of the spiritual world of philosophers. There is still a long way to go for the three-dimensional construction of university music curriculum textbooks. We need our teachers to constantly explore and make progress in practice.

### 3. The Necessity of Building Three-dimensional Course Network Platform

The network platform is a window for displaying the results of three-dimensional curriculum construction and accepting social evaluation. It is also the focus that directly reflects the teaching level of colleges and universities and relates to the realization of learners' autonomous learning. In the current information environment, the support of network teaching platform and the participation of social software provide concrete support for the extension and expansion of teaching time and space. The traditional education mode will continue, and there will be an increasing number of modern and digital teaching methods and content. This is bound to go through a tortuous and gradual development process in the development and construction of the three-dimensional teaching materials of university music courses closely related to it. The network platform can create a powerful digital and networked teaching and learning environment for modern teaching and teaching management. Separating the time and space of teaching activities, opening up a convenient channel for the acquisition of teaching resources, and achieving learners' independent learning and distance learning. As a kind of carrier, the three-dimensional art textbook provides more abundant resources for art theory and appreciation teaching. Combine modern digital resources with traditional paper teaching resources.

The learning process of the knowledge system includes the explanation of knowledge points such as concepts and laws. Online self-learning can be realized through the teacher's lecture video and micro-course. The length of the beat is represented by a number. For the sake of definition, a "shoot" concept is introduced to express a series of characters. There is a different length of sound in each shot. The specific distribution is shown in Table 1. The relationship between time and time of different beats and rhythms is shown in Figure 2.

Table 1 Rhythm time Table

Time length	1 beat	2 beats	4 beats
1	1	3	2
2	2	4	2
3	3	1	3

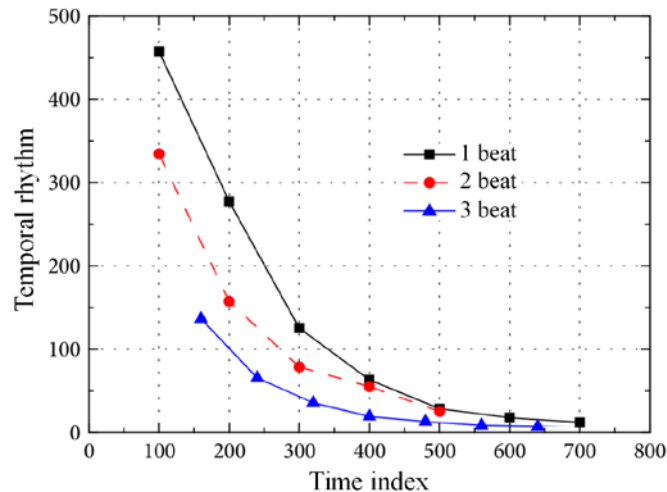


Fig. 2 Different beats and rhythm time and time relationship

The three-dimensional teaching material of university music course should be an integrated teaching plan, which usually includes the main teaching material, teaching aids and testing system. In the construction of network platform, the design of network layout is very important. When designing the layout, we should fully rely on aesthetic theory and use advanced web production tools. Teaching resources should be rich and varied, pleasant to the eye, and easy to read and browse. In terms of development trend, the application of three-dimensional textbooks of university music course has many advantages for improving the teaching effect of university music course and the application ability of students' music course. The three-dimensional textbook is different from the traditional textbook in that it uses various media and exerts its respective advantages [10]. Forming interactions between media, emphasizing the integrated teaching design of various media, focusing on stimulating students' interest in learning. Teachers can use the network to teach and use the online teaching environment to create an open teaching model. Make teaching activities novel and diverse, and educational goals are more effectively achieved through the network.

For learners, the web platform exposes high-quality curriculum resources that learners can use at any terminal in the campus network. The three-dimensional textbooks are based on paper books and are centered on curriculum construction. It is a comprehensive platform for the integration and exchange of teaching resources. Publishers who publish textbooks for university music courses often provide few follow-up services after delivering this integrated teaching program. College teaching has continuity, but learners of different eras have different personality characteristics. As the main force of university textbook construction, University Publishing House takes paper textbooks as the core. We can develop three-dimensional teaching materials to meet the needs of different regions and schools at the present stage. Three-dimensional textbooks are the direction of the development and reform of textbooks in China, which will bring a landmark textbook revolution. Characteristic learning resources should be the soul of network teaching platform. It should not only highlight the characteristics and have its own style, but also directly show the scientific research and teaching level of the three-dimensional courses in specific colleges and universities.

#### 4. Conclusion

Strengthening the construction of three-dimensional textbooks for university music courses is of great significance for enhancing students' interest in learning, developing independent learning and improving teaching effect. With the advent of the information age, China's higher education has undergone tremendous changes, and the construction of three-dimensional curriculum network platform has become the requirement of the times. The three-dimensional teaching material construction of university music course is a huge systematic project. We cannot seek perfection by greed, but must proceed step by step. We should strengthen the cultivation and education of farmers' information literacy and information awareness, and establish a long-term mechanism. The

three-dimensional construction of Public Art Textbooks in Colleges and universities has a far-reaching impact on the construction of public art courses. It is necessary to start from the youth and teach them to master and use modern means of communication such as computers and networks through compulsory education. With the continuous development of educational technology and public art, the knowledge content, knowledge structure and capacity structure of textbooks under the vision of art education will inevitably achieve faster development. This article lists the factors that should be considered in the construction of the three-dimensional curriculum network and some aspects that are easily overlooked, so that everyone can build a high-quality, distinctive three-dimensional curriculum network. In order to continuously improve the quality of teaching in colleges and universities, and promote the pace of the construction of educational information in colleges and universities.

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