

# *Application of Information Technology in College Music Solfeggio and Ear Training*

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**Abstract:** Solfeggio and ear training is a basic course for music majors in colleges and universities, which can effectively help students to establish good intonation and rhythm, and improve their music literacy and appreciation ability. In particular, the development of information technology has played an important role in promoting the training of college music solfeggio. In addition, information technology has the characteristics of accuracy, interactivity, diversity and continuity. Reasonable use of these characteristics can perfectly realize the integration of information technology and solfeggio, and greatly improve the teaching effect of solfeggio. Therefore, colleges and universities should try their best to apply information technology to the teaching content, teaching mode and practice of solfeggio.

## **1. Introduction**

In the music teaching of colleges and universities in China, solfeggio has experienced a very long stage. Now, solfeggio and ear training teaching has a preliminary form, and has a very important position in the music teaching of colleges and universities. The study of solfeggio is also an important means to improve music ability. However, solfeggio has the characteristics of complexity and diversity. Therefore, the application of information technology has become the necessity of solfeggio teaching. Combined with the current teaching objectives, students can be trained from singing practice to listening and discrimination through the application of information technology. It can not only further improve the teaching content of solfeggio in China, but also standardize the teaching and promote the development of China's music industry.

## **2. Problems in Solfeggio Teaching in Colleges and Universities under the Background of Information Technology**

### **2.1 The Development of Information Technology Affects the Teaching Effect**

With the continuous development of information technology, smart phones are becoming more and more popular. More and more students are taking smart phones to class, and it has become a very common phenomenon to bow their heads in class. Although many schools have formulated many measures to deal with the situation of students playing mobile phones in class, it is still

difficult to fundamentally curb the situation of students playing mobile phones. Students still come up with many ways to deal with the relevant measures of the school. Smart phones and the Internet are still the biggest challenges for effective teaching in colleges and universities. [1] In the teaching of music solfeggio in colleges and universities, if everyone plays with mobile phones in class, the teaching effect will be affected. And the development of smart phones has undoubtedly become an inevitable trend, so colleges and universities should be fully prepared to meet this challenge, make good use of information technology, rather than let information technology become a stumbling block to the development of teaching.

## **2.2 The Application of Information Technology is Too Superficial**

With the continuous development of information technology, more and more schools have applied information technology to the classroom, and the multimedia classroom has basically achieved popularization. With the support of multimedia technology, computers, projectors and other equipment, classroom teaching can realize the display of audio, video, animation and other forms of content, which greatly enriches the classroom teaching means. But in college music solfeggio teaching, most of the use of computer technology is under the banner of computer technology to make the traditional blackboard teaching more standardized. In fact, it has not changed the traditional teaching mode, which takes class collective teaching as the main form and emphasizes common words teaching as the representative, or even strengthened the traditional teaching mode. It can be seen that the application of information technology in solfeggio teaching in colleges and universities is too superficial, and has not achieved the modern development of music solfeggio. [2]

## **2.3 The Discomfort of Information Teaching and Music Solfeggio**

After entering 21st century, more and more educators have put forward the idea of “Internet plus” in education practice. Therefore, a large number of network teaching platforms like “MOOCs” and “micro-lectures” have appeared. However, these online teaching platforms are mostly involved in the fields of science and engineering, language, mathematics, English and other basic subjects, [3] but the content involved in the field of music is very little, and some of the content also focuses on the teaching of music theory, which is less related to the content of solfeggio. There are great differences between the theoretical content and the teaching content of music solfeggio. It is difficult to achieve the ideal teaching effect by watching the online teaching video. Generally speaking, solfeggio requires teachers to teach by words and practice, and repeated practice training to achieve the desired effect. It can be seen that information-based teaching and music solfeggio have certain discomfort.

## **3. The Advantages of Information Technology in Solfeggio Teaching**

### **3.1 Accuracy**

Through the use of information technology in solfeggio teaching, we can ensure the high accuracy of music rhythm, music rhythm and higher content. Because solfeggio is a course combining practice and theory, the demonstration of music teachers' teaching is of great significance to the teaching effect. In this way, the accuracy is very important.

### **3.2 Diversity**

Multimedia courseware has rich content, and multimedia technology also has a very rich way of presentation, which can provide students with a very rich sensory stimulation, which can promote students' learning of music. These are the advantages and characteristics of traditional music teaching, which can fully attract students' attention and interest in music learning. [4]

### **3.3 Interactivity**

In the process of learning, students will inevitably encounter a variety of problems. If these problems are not solved in time and effectively, it will hinder students' learning. With the help of computer technology, students can timely feedback a variety of problems, and timely let teachers answer for students. The speed of information transmission of computer technology is incomparable with traditional teaching, which can greatly promote the progress of students, make the road of students' learning smoother, and stimulate students' interest in learning.

### **3.4 Continuity**

In the traditional teaching, the relationship between students and teachers will end because of the end of classroom teaching, and there is little further communication between students and teachers after the end of the course. After the end of the course, there must be some deviation in students' review of the learning content, which leads to the learning content is not comprehensive enough. [5] But in the application of multimedia technology, this drawback can be avoided, students can save the network course, and watch at any time, so as to guide themselves to study correctly and comprehensively at any time.

## **4. Application Strategy of Information Technology in College Music Solfeggio Teaching**

### **4.1 To Reconstruct Solfeggio Teaching Content**

The most important thing of music education is to cultivate students' professional ability. We should not only pay attention to the theoretical knowledge of students' music education and cultivate their music ability, but also cultivate them into compound talents. At present, the solfeggio teaching content of music teaching in colleges and universities in China has the phenomenon that the solfeggio repertoire is divorced from the actual needs of skill training, and the teaching content is mostly imitated by other conservatory of music. In addition, colleges and universities do not pay attention to solfeggio training, resulting in the cultivation of music majors' music ability is not comprehensive enough. Therefore, it is necessary for schools to actively use the information network learning platform, combined with video open class, micro class and other network learning platforms, to realize the rich development of solfeggio teaching content.

### **4.2 To Expand Diversified Teaching Mode**

Information technology has become an inevitable direction of the development of higher education, so the traditional teaching ideas of music solfeggio teaching in colleges and universities must be changed to realize the transformation of "student-oriented" concept. Under the application of information technology, colleges and universities should take cultivating compound and innovative music talents as the goal, fully learn from all kinds of new talent training modes, change the unified teaching mode with teachers as the main body, and realize the diversified transformation of teaching mode. At the same time, we should implement the combination of teaching students in accordance with their aptitude and practical application, and establish a diversified and modern new

model of solfeggio teaching.

### 4.3 To Establish Three-Dimensional Practice Link

The traditional solfeggio teaching is mainly to teach the relevant theoretical knowledge, in the actual teaching design, there are few targeted training for students' differences, so the final result of students' growth is very limited. Therefore, in the context of information development, colleges and universities should take solfeggio as an inherent teaching plate, and establish a professional practice teaching link. [6] Specifically, it is to reasonably arrange the practical training content by means of information-based teaching, organically combine solfeggio teaching with relevant professional content, and release information through MOOC and SOPC platform, so as to realize the combination of online teaching and offline teaching, and establish a three-dimensional practical teaching form.

### 5. Conclusion

There are many problems in China's music education. The development of information technology brings challenges to music solfeggio education, and brings a lot of development opportunities. Therefore, we must make full use of information technology in teaching, fully apply information education to solfeggio teaching, and realize the development of solfeggio teaching.

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