



# Research on Virtual Music Teaching Guidance System

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## Abstract

With the rapid development of scientific and technological information, information technology has been widely used in the teaching of various disciplines. The rapid development and popularization of Internet technology has brought great convenience to people's work, life and study, and also brought great impact on traditional industries. Under this benign influence, people gradually adapt to the existence of the Internet, thus making the birth of the Internet thinking. The development of the Internet has also had a great impact on music teaching. The Internet platform can meet the learning requirements of students in the new era, and then improve the efficiency of students in music learning, so that students can complete the learning of music skills through the Internet. This paper mainly tells about the research of virtual music teaching and guidance system based on the Internet environment, according to the current situation to put forward their own opinions, and put forward some solutions for the current problems, the purpose is to speed up the research progress of virtual music teaching assistance system, improve the learning efficiency of students.

**Keywords:** *Internet, music teaching, teaching and guidance system*

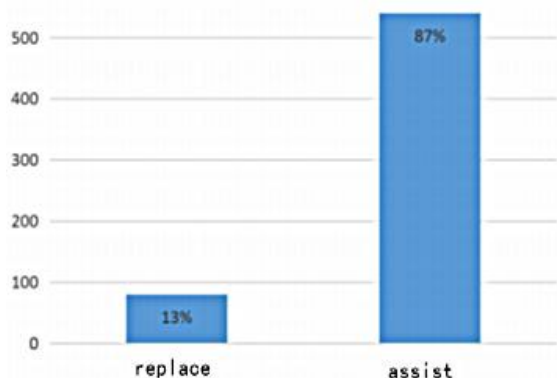
## 1 INTRODUCTION

The combination of the Internet and music has brought a huge impact on the music industry. The sharing of the Internet makes it more difficult to obtain profits through the terminal music audience, which will then affect the music creation, performance, dissemination and so on. However, from another point of view, the music industry has also made great progress and changes under this influence, which also has a certain help to music education [1]. For a long time, music teaching in colleges and universities has been in the offline teaching mode, implementing music teaching for students through the offline classroom. In recent years, the Internet has developed rapidly, and the construction of teaching activities based on the Internet channels has become a brand new choice [2]. Especially in the background of Internet +, the construction of a new mode of "Internet + teaching" can bring new experience to teaching activities. For music teaching in colleges and universities, it is necessary to effectively use the Internet +, innovate and build the teaching mode, effectively promote the development of music teaching, improve the effectiveness of teaching activities, so that music teaching can achieve better results [3].

## 2 APPLICATION OF ONLINE MUSIC TEACHING MODE

The traditional mode of music education in China is that teachers sing on the platform and students sing together. The teaching mode and teaching methods are too single, and the teaching mode of music should tend to be diversified. Due to the unbalanced development of China's economic development, the educational resources between different regions are also far apart. In the face of unbalanced regional development, "Internet +" can well solve the problem of unbalanced educational resources [4]. Now the multimedia equipment used in music teaching classroom has changed from imagination to visual presentation, and the use of multimedia makes music teaching more intuitive and diversified. The integration of music teaching and the Internet can not only be applied to music production, but also in basic classroom teaching, so as to comprehensively support the extensive development of music education [5]. In addition, the occasional development of musicians has brought art education into a rapid upgrading stage, and many artists have begun to upload their works to new media platforms, and these high-quality works can supplement and expand school music education. With the optimization of Internet technology and the construction of digital campus, students' music activities within

schools can be guided by information technology, and all activities can be presented in the form of numbers [6].

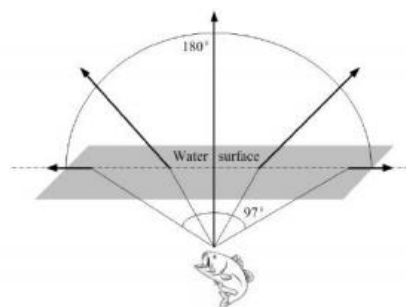


**Figure 1:** Students consider the learning purpose of online music teaching

The integration of Internet and music education starts from the teaching content, and effectively promotes the organic combination and development of Internet and music education with the high-quality music sharing platform built on the Internet as the means of music education. The development of school music has broken the traditional music teaching mode and improved the overall audience power of students for music. In the process of learning music, students can better master and understand the theoretical knowledge [7]. In this process, I have a more firm grasp of the theoretical knowledge that have been learned. For music courses with music skills as the main learning content, offline teaching methods can be gradually transferred to online teaching. Because students have different talents and conditions, music skills courses generally use one-to-one teaching methods, and teachers should teach students according to their different conditions. In the primary stage of students' learning music skills, the offline classroom is mainly used, supplemented by online teaching. This teaching mode is the best for the teaching effect [8].

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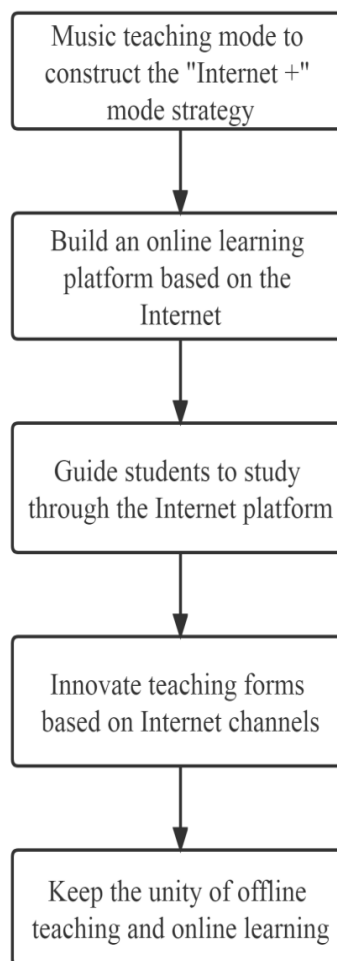
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**Figure 2:** Auxiliary role of the fisheye lens

### 3 STRATEGY OF CONSTRUCTING "INTERNET +" MODE

College music construction Internet + mode implementation of teaching, on the basis of grasping the relevant key points, we need to achieve the corresponding goals through reasonable measures.



**Figure 3:** Strategy of constructing "Internet +" mode

### 3.1 Build an online learning platform based on the Internet

Internet + mode construction, a basic premise, is to be based on Internet channels, set up online learning platform, provide the basis for Internet + learning, specifically, online learning platform building, there are two ways to choose, the first way, choose the existing Internet learning platform, which open a special online learning account, and then set the corresponding online learning function. For example, the current "Yi School" and "Rain Classroom" are all ready-made online teaching platforms, which music teachers can use directly. The second way is to independently build a more practical online learning platform in combination with the actual needs of music teaching. From the long-term development of music teaching in colleges and universities, it is more appropriate to choose the second channel. Because the construction of Internet + teaching mode is not only the use of philosophy, but needs to achieve long-term application [9]. Therefore, combined with the actual needs of music professional teaching, the construction of a practical professional online learning platform, which is more conducive to the long-term development of music teaching.

$$F_{1+t} = \frac{V_1 + V_{T-1}}{n} \quad (1)$$

### 3.2 Guide students to study through the Internet platform

After building an online learning platform, this platform is also needed to guide students to learn. Specifically, we can pay attention to the relevant links of extracurricular learning, such as pre-class preview, after-class exercises, knowledge review, etc., and transfer these learning links to the online platform, organized and managed by teachers through the online platform, which can strengthen students' extracurricular learning and realize the extension of teaching activities. First of all, before the beginning of classroom teaching, teachers can base on the music teaching materials, according to the teaching knowledge section, refine them knowledge points, then design the pre-class preview task, and release the preview task on the online platform. Later, students are required to log on to the online platform, complete the preview task before class, and submit the preview results [10]. Secondly, after the classroom teaching, some theoretical exercises can be published to the online platform, so that students can complete the after-class exercises on the online platform [11]. After the completion of the knowledge teaching of each section, it is necessary to make a good summary of the section of music knowledge, based on the thinking map, build the knowledge system, uploaded to the online platform, and provide students to review after class. In addition, open learning activities can also be designed in the online

platform to organize students to discuss and learn and deepen the learning effect.

### 3.3 Innovative teaching forms based through Internet channels

In addition to building an online learning platform based on "Internet +" to guide students to carry out online learning, we also need to innovate in teaching activities based on Internet channels to improve the effectiveness of music teaching. First, through the new media, to attract extracurricular music materials. In the current Internet new media, there are a large number of music resources. For example, B station, TikTok and other platforms, all have massive resources. Teachers can collect materials related to music teaching from these channels and put them into classroom teaching. Second, with the help of the Internet MOOCs, to assist in music teaching. From the current development of music teaching in colleges and universities, some colleges and universities with strong music majors have constructed high-quality MOOCs courses. In the practice of music teaching, these high-quality MOOCs can be introduced and taught to students based on these MOOCs resources. Under the Internet + mode, live teaching is worth considering. Universities can share their advantages and teach each other through live teaching to bring better teaching experience to students.

To find the underlying data scheme, you need the following code:

```
Context context = null; // context

String tableName = null; // The name of the underlying table

Filter<FBaseDataInfo> filter = null; // filter

BaseDataCenter.find(context, tableName); // Find the specified Settings

BaseDataCenter.getInfoList(context, filter); // Look up the Settings according to the filter
```

### 3.4 Keep offline teaching and online learning unified

In the process of building the Internet + model, it is also necessary to pay attention to maintaining the unity of offline teaching and online learning, and to make the two develop together without disconnection. First, the content arrangement of offline teaching and online learning should keep the same schedule. Second, offline teaching should be guided by online learning. For example, before the teaching activity begins, teachers can log on to the online platform. Understand the students' preview, according to the students in preview by the mouth, offline teaching, focusing on relevant knowledge,

promote students to master, third, online learning to offline teaching, on the basis of offline teaching, appropriate extension, expand learning content, deepen

the students' mastery of music knowledge, improve the students' learning effect.

**Table1.**Strategy of constructing "Internet +" mode

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Build an online learning platform based on the Internet	Internet + mode construction, a basic premise, is to be based on Internet channels, set up online learning platform, provide the basis for Internet + learning, specifically, online learning platform building, there are two ways to choose, the first way, choose the existing Internet learning platform, which open a special online learning account, and then set the corresponding online learning function.
Guide students to study through the Internet platform	we can pay attention to the relevant links of extracurricular learning, such as pre-class preview, after-class exercises, knowledge review, etc., and transfer these learning links to the online platform, organized and managed by teachers through the online platform, which can strengthen students' extracurricular learning and realize the extension of teaching activities.
Innovative teaching forms based through Internet channels	In the practice of music teaching, these high-quality MOOCs can be introduced and taught to students based on these MOOCs resources. Under the Internet + mode, live teaching is worth considering. Universities can share their advantages and teach each other through live teaching to bring better teaching experience to students.
Keep offline teaching and online learning unified	Understand the students 'preview, according to the students in preview by the mouth, offline teaching, focusing on relevant knowledge, promote students to master, third, online learning to offline teaching, on the basis of offline teaching, appropriate extension, expand learning content, deepen the students' mastery of music knowledge, improve the students' learning effect.

#### 4 CONCLUSION

From the perspective of the specific situation of the development of the times, it has fully entered the Internet + era, and all walks of life are connecting with the Internet. Higher education, as the peak of the education system, should take the lead in the construction of the Internet + teaching mode. For music professional teaching, professional teachers need to realize the Internet + teaching value, clear the shortcomings of teaching activities, Internet + oriented, actively build online learning platform, guide students to online learning, innovative offline classroom teaching, keep

online teaching and online learning synchronous development, promote music professional teaching to achieve better results.

#### ACKNOWLEDGMENT

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