

# **The Development of Piano Micro Teaching and Flipped Classroom in the Era of “Internet +”**

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**Abstract:** through the study of piano teaching in Colleges and universities in the Internet + era, it is clear that it has the status of highlighting students as the main body, activating the atmosphere of classroom and stimulating students' enthusiasm. Understanding initiative and systematicness is the principle of micro-course design, and its application is explored. At the same time, it also discussed how to reduce the difficulty of understanding by flipping the classroom. This paper explores the advantages of learning convenience and provides a reference for people who pay attention to this topic.

## **1. Introduction**

At present, the level of science and technology is improving, information technology is becoming more and more mature, and gradually affecting people's lives and work. In particular, it creates new opportunities for the development of education and promotes the reform and innovation of educational methods. Under the background of “Internet +” era, micro class and flipped classroom gradually entered the University, playing a good role in promoting piano reform, and improving the quality of teaching [1].

## **2. “Internet +” Era Piano Teaching in Colleges and Universities**

### **2.1. Superiority of micro-course in piano teaching in colleges and universities**

Micro-course, that is, micro-course fragments, is an innovation and breakthrough in the past teaching methods. In the traditional piano teaching, the main way is to teach and listen to the students. Therefore, in piano learning, students are passive. Moreover, it is difficult for students to maintain a high concentration of attention because of at least 45 minutes of the course. However, microclasses usually take 5 to 10 minutes. Although the time is relatively short, students learn the essence of piano teaching. In a short time, students'attention is not easy to be distracted, and at the same time, it improves the efficiency of learning. It also guarantees the quality of piano learning. In addition, in the mode of micro-lesson teaching, students are no longer passive receivers of piano knowledge, but have the initiative to choose the piano micro-lesson according to their own interests. It not only helps to mobilize the enthusiasm of students, but also effectively enhances the boring and boring classroom mode in the past, and strengthens the students'sense of ownership. Through the combination of online learning and offline learning, the piano level has been greatly improved, the time for students to learn piano has been prolonged, good teaching effect has been achieved, and excellent piano talents have been trained [2].

### **2.2. The design principle of micro-course in piano teaching in colleges and universities.**

Systematism and initiative are the main principles in designing piano teaching courses for micro-lessons. Systematism is to make teachers realize that piano guidance is a systematic process. In addition, attention should be paid to the design of each educational link to allow students to learn piano knowledge in stages. Initiative mainly emphasizes students'principal position. The content design of these micro-lessons needs the active participation of students as the starting point and the foothold to stimulate their desire for knowledge, mobilize their enthusiasm, help them to learn

knowledge better and improve their piano learning ability [3].

### **3. Application of Micro-Course in Colleges and Universities**

Micro-curriculum has incomparable advantages compared with traditional education mode. Therefore, colleges and universities pay attention to piano guidance and are widely used. The main aspects of its application are as follows.

#### **3.1. Infiltration of aesthetic education relying on “micro course”**

Piano is one of the most important arts with unique artistic charm. In piano education in Colleges and universities, we should not only teach piano knowledge, improve the level of piano [4], but also pay attention to aesthetic education. The use of micro-classes provides favorable conditions for the development of aesthetic education. For example, music aesthetics is used to create 5 to 10 minutes of micro-lessons for piano music aesthetics. Students can appreciate the beauty of piano art and feel the unique charm of piano. This can not only cultivate students'sentiment, but also improve their music literacy. It is of great significance to the realization of good aesthetic education effect [5].

#### **3.2. Enriching students'learning of piano repertoire by means of “micro-lessons”**

The characteristics of video resources of micro-lessons lie in various types and different types. Therefore, in the actual teaching, we can make full use of the micro-image resources. For example, piano music writers, music background and other instructions can be micro-class teaching, so that students'knowledge is not limited to textbooks. It can increase the amount of knowledge of students, but also enable students to understand a wide range of piano works played, laying a solid foundation for performance [6].

#### **3.3. Application of improvised accompaniment and self-playing and self-singing teaching**

Improvised accompaniment and self-playing and self-singing are the key and difficult points in Piano Teaching in universities. The role of micro-class in this teaching link can not be ignored. Teachers can combine video, sound and other knowledge points. Students can use video to train effectively. In addition, they can also use video for piano teaching and training according to their knowledge points. And according to these knowledge, we can make piano teaching and training images. In the process of carrying out micro-lesson teaching activities, the complementary relationship between piano education and professional colleges and comprehensive universities is strengthened. Effectively strengthen students'impromptu accompaniment and improve the level of piano performance. Fig. 1.



Fig.1. Piano keys simulated

In a word, micro-lesson, a new teaching method, plays an important role in piano education in Colleges and universities. It is of great significance to achieve good educational effect [7].

### **4. University Flipped Classroom Teaching in the “Internet +” Era**

#### **4.1. Advantages of reversal classroom in piano teaching**

Flipping classroom is a relatively advanced education model and the product of the Internet era. The educational method is supported by multimedia technology and advanced network technology. Its purpose is to keep pace with the times and promote the piano guidance of universities in order to

meet the needs of modern educational development. The use of flipped classroom education model can promote the conversion of time and space in the classroom. In the previous piano teaching in universities, teachers were the guiding position. The progress of teachers' lectures determines the progress of knowledge listening and learning to a certain extent. Students receive knowledge passively. However, under the reversed classroom teaching mode, it can effectively reduce the effect of teaching progress and improve students' self-learning consciousness and self-learning ability. The effect is good. It helps students learn piano knowledge, learn future work and life, and develop the habit of independent thinking. In addition, the flip classroom is conducive to reducing the difficulty of students' understanding and improving the efficiency and quality of their piano learning. The use of classroom education mode is mainly reversed. Students can divide the complex knowledge content, so that students can begin to reduce their learning pressure from understanding the small knowledge points. In addition, the deep understanding of piano knowledge can promote the fundamental improvement of students' piano level.

#### **4.2. Innovative points of flipping classroom in piano teaching**

It is different from traditional education methods. Flip classes are based on the Internet. This has advanced and modern functions. It is compatible with the development of the times. That has incomparable advantages over traditional methods of education. Its innovation is mainly manifested in the following aspects [8].

First, the innovation of learning places. Classroom is the main place for traditional piano lessons. That's where you learn and understand piano knowledge. However, in the limited classroom time, it is difficult for students to fully and profoundly understand the knowledge of piano. Flipping classroom gives students the freedom to choose learning place and time, and reforms a single learning place. For example, you can watch relevant piano videos in dormitories or libraries, and you can also provide rich piano knowledge. The innovation of learning places provides help and convenience for students to meet the needs of learning piano knowledge. Figure 2.



Fig.2. Teachers ask random questions

Second, innovation of learning methods. In the past piano learning, what the teacher said, what the students learned and the progress of learning were mainly influenced by the teacher. This passive learning mode hinders the improvement of students' learning efficiency and quality. The implementation of the reversed classroom education mode promotes the continuous innovation of piano learning methods for college students. Students can use relevant videos to understand the learning content in advance. In this process, they not only play a good preview role, but also lay a good foundation for learning piano knowledge. Moreover, problems can be found and knowledge can be learned with them. Purposeful listening is beneficial to the improvement of students' basic piano learning ability [9].

#### **4.3. Design ideas of flipping classroom in piano teaching**

First, in order to ensure the smooth development of classroom teaching and lay a good foundation, it is necessary to prepare in advance. Firstly, according to the present purpose of piano

education in universities, the scientific and reasonable formulation of the education plan. For example, we should carefully design the content of education, reasonably set the content of teaching, establish the difficulties of education, and lay a good foundation for the reversal of classroom design. Secondly, it is necessary to combine with specific piano education content to produce video. Videos used in flip classes have many similarities with micro classes, which take about 5 to 10 minutes. When making video, you must ensure that the video is short and subtle, and its content must be guaranteed to be the essence of piano lessons. At the same time, you can't completely restore your single pattern in class, otherwise you can't attract students' attention. Flipping the video in the classroom can add animation demonstration and music appropriately, and make video to effectively realize piano teaching activities and achieve good guidance results. Thirdly, in order to understand the key points of this course, you need to guide students through video to learn for the first time. We usually have to reflect one or two important points of knowledge, such as representative composers or performing skills. Finally, we should grasp the students' preview research and understand the students' understanding. After video recording, this is to train trucks, skills training and so on, guide students to conduct online communication platform, they can upload the results of their practice, therefore, the interaction between teachers and students can achieve students and students piano. Learning knowledge, and then targeted teaching [10].

Secondly, the interaction between class teachers and students; Teachers who teach in a flipped classroom mode can understand students' achievements through the network communication platform. Many students have all kinds of small problems. For example, when the running paragraph is regenerated, many students do not have good speed control. Teachers must watch music videos uploaded by students. This paper analyses why your fingers can be held too high and provides goal guidance for students to continuously improve their piano performance.

## 5. Conclusion

In short, in the "network +" era, students can accept high-quality teaching and looking at teachers. This is an epoch-making innovation of the traditional way of education. It plays an important role in the teaching of piano in universities and colleges. In order to arouse students' enthusiasm, so that they can learn at any time and anywhere, enrich the piano content, deepen the understanding of relevant knowledge, achieve the desired educational effect, students provide network resources and environmental support.

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