Research on the Application Strategy of Micro Course in Computer Teaching in Colleges and Universities

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Abstract: with the Development of the Times and the Progress of Science and Technology, the Application of Information Technology and Network Technology is More and More Extensive, Almost Covering the Vast Majority of Provinces and Cities. with the Advent of the Information Age, the Cultivation of Talents is Gradually Focusing on Its Information Technology Operation Ability, Practical Ability and Theoretical Knowledge. Especially Now the Market Demand for Compound Talents is Increasing, Which Makes the Basic Computer Teaching Level in Colleges and Universities Continue to Develop and Apply New Teaching Mode. Micro Course Teaching Mode Has Been Widely Used Because of Its Advantages of Short Time, Easy Operation, Clear Thinking of Knowledge, Distinct Theme and Rapid Feedback.

1. Introduction

With the wide application of information technology and network technology, computer technology has been developed rapidly. Nowadays, computer has become an indispensable tool and component in people's daily life and work. For the education industry, which attaches great importance to the cultivation of students' computer ability and knowledge, it is also actively integrating the latest information technology with the existing teaching resources, so as to effectively improve the operation level of students' computers.

Computer basic teaching is a subject that pays more attention to science and system. The theoretical content of the course needs continuous practice to realize students' understanding of knowledge. This also requires that in the classroom teaching of basic computer courses in Colleges and universities, we must realize the dual attention of theoretical knowledge and practical operation skills, so as to effectively improve the computer level of students and cultivate their information technology literacy. Micro class is a new teaching mode based on the network platform and teaching short video, which can enrich the teaching content, create the classroom teaching atmosphere and students' initiative. It can exercise students' thinking ability and innovation ability. Therefore, colleges and universities should actively explore the effective application of micro class teaching mode in Computer Teaching, and play the advantages and works of micro class To improve the information technology level of students.

2. On the Definition of Micro Course Teaching Mode

The definition of micro course teaching mode is not complicated. It is mainly a systematic teaching mode with the help of information technology and network platform developed information transmission speed and efficiency, with short video as the main carrier, around the key points of subject knowledge and the links of teaching links. Generally, the short video time is usually 8 to 10 minutes, which is based on investigation, as shown in the figure:
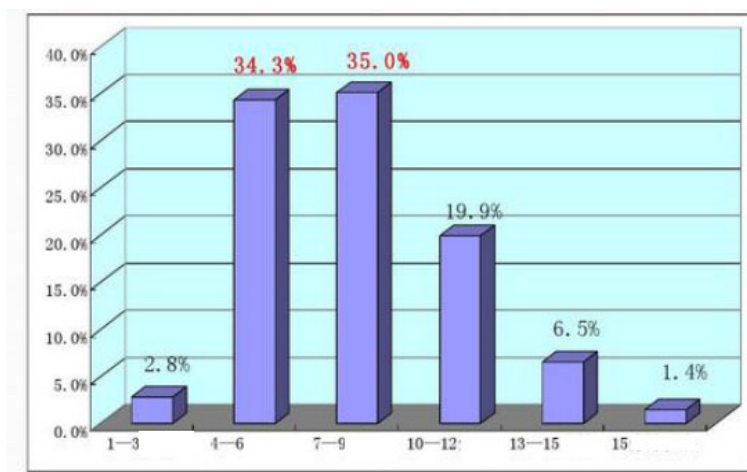
Fig.1 Investigation Chart of Micro Class Video Duration

Moreover, the teaching content of the video is very concise and the topic is relatively clear, and it can break the restrictions of teaching space and teaching time, and focus on a certain knowledge point. Students can also watch and learn repeatedly according to the knowledge points they don't have, until they have a full grasp of the position of the knowledge points, which saves the time of classroom teaching to the greatest extent It improves the teaching effect [1]. As shown in the figure:

Fig.2 Main Features of Micro Courses

In addition, the micro course teaching resources can not only provide students with the display of knowledge focus and knowledge links, but also trigger the development of teaching resources based on learning and knowledge extension, meet the needs of students for knowledge expansion to varying degrees, and deepen students' understanding of knowledge. In addition, students can also learn knowledge of different disciplines through micro courses, and will not be limited by time and space. They can learn and review repeatedly at any time and any place. It can also carry out practice while learning, so that students can carry out point by point verification of what they have learned.

3. The Current Situation of Computer Teaching in Colleges and Universities

3.1 The Teaching Atmosphere is Boring and the Teaching Video is Too Long

At present, the problem of the application of micro class teaching mode in the process of computer teaching in Colleges and universities lies in that classroom teaching and micro class teaching are not effectively connected. Students only use micro class video as a teaching aid tool, and do not pay attention to its teaching content. Moreover, the video frequency of micro class teaching is too long, even contains the knowledge of the whole course, which seriously affects the micro class video The teaching effect and students' interest in learning make it impossible to distinguish and connect the effect of micro class video teaching and classroom teaching. It has not

played a real role in the micro class teaching mode [2].

3.2 Unclear Teaching Objectives and Contents

At present, in the application of micro course teaching mode in Colleges and universities, many teachers use the video resources in the network resources when recording the micro course video courseware. In terms of teaching objectives and teaching contents, they often do not conform to the actual situation of college students, and many videos are in-depth explanations of teaching knowledge points, while the connection between teaching knowledge points and the extension of knowledge points are not mentioned In addition, there are many outstanding knowledge points in a video, which leads to the serious lack of learning effect and interest of students, and also reduces the targeted advantage of micro class video teaching mode.

3.3 Less Communication between Teachers and Students

At present, the application of micro course teaching mode in computer teaching in Colleges and universities also has the problem of lack of communication between teachers and students. Although with the application of information technology and network communication platform, people's communication methods are increasing, many students are blindly watching the micro class video, and the way they take is passive acceptance, and they have to think about it, and they have not tried to effectively communicate and communicate the problems and knowledge points involved in the micro class video with teachers. Students are learning in the micro class Teachers can't know how much knowledge they have mastered and whether their learning level has improved. This problem goes against the original intention of adopting the video teaching mode of micro class, resulting in the effect of the teaching mode of micro class is extremely not obvious [3].

4. How to Effectively Promote the Application of Micro Course in Computer Teaching

4.1 Accurate Division of Micro Teaching Video Content and Clear Formulation of Theme

In the face of more and more complex and comprehensive demand for talents and high-intensity competition in the talent market, in order to improve the employment competitiveness of college students, we must strengthen the cultivation of students' comprehensive quality and technical ability. College computer foundation is the information technology literacy that students must have. Therefore, in the teaching of Computer Science in Colleges and universities, the application of micro course teaching can decompose and refine the theoretical teaching and practical teaching content, and make it a complete system to realize the decomposition of the teaching objectives of the system, as shown in the figure:

Fig.3 Teaching Objectives

Let students control the teaching rhythm according to their learning ability and basic level [4]. At the same time, it can also achieve the correct guidance of students' learning objectives and point out the direction for students to move forward. Therefore, teachers should pay attention to accurate

division and clear theme in the division of micro class teaching video content, and ensure that the theme of each micro class video teaching resource is highly representative and practical. In order to promote the construction of students' computer knowledge system.

4.2 Identify Appropriate Topics and Ensure Relevance of Each

The appropriate theme is the key point of making micro teaching video courseware, and the relevance of each theme is also very important. It is the guarantee and key to determine whether the overall division of knowledge structure and sub objectives of micro teaching courseware can constitute the overall teaching objectives. It is necessary to ensure that the subject content is clearly expressed in an effective time, and knowledge extension to a certain extent [5]. The selection range of the theme should also be in line with the focus and difficulty of the course content. At the same time, we should also pay attention to the interest of the micro video courseware content, so as to improve the enthusiasm of students and the initiative of micro video courseware learning. In addition, the themes of each micro course video courseware should be able to form a chapter based knowledge focus or knowledge structure, so as to ensure that students can form a stable knowledge structure after learning and thinking. And realize the overall application effect of computer knowledge.

4.3 Strengthen the Online and Offline Communication between Teachers and Students to Ensure the Teaching Effect

In order to strengthen the communication between teachers and students, the first thing is to change the social concept between teachers and students. Teachers communicate with students equally instead of teaching in the tone of teachers. In this way, teachers can also relax and talk with students. Students can also communicate with teachers without psychological pressure, and dare to ask questions they think and think about. Moreover, teachers should also increase the mastery of online and offline communication skills with students and the use of multiple platforms. For example, the classic wechat platform or other education communication platforms should also pay attention to the guidance and encouragement of students' thinking, pay attention to the problems encountered by students, and communicate with students at any time. This is a very easy thing in the highly developed modern mobile client and wireless network [6]. In addition, teachers can also use the mobile network platform to arrange the course exercises, assessment, evaluation and other related contents, so that students can receive the test receipts and feedback anytime and anywhere, so that teachers can always master the learning dynamics of students and the actual knowledge level.

5. Conclusion

With the advent of the information age and the wide spread of network technology, the application of information technology in higher education is the inevitable trend of the reform and innovation of its education mode, and also an effective promotion of the quality and level of education. The teaching attribute of basic computer teaching in Colleges and universities is the teaching of theoretical knowledge and practical application of information technology, which has great application advantages in the application of micro course teaching in the teaching mode. Therefore, colleges and universities must pay attention to the application of computer teaching to micro course teaching mode, make full use of the huge advantages of micro course teaching mode to improve students' computer technology level and information technology literacy, and then realize the improvement of students' ability and learning level, so as to achieve a solid foundation for students to enter social posts and quickly integrate into the tide of social industry development, and achieve good results Good development and provide sufficient power for social stability and harmonious development.

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