

Research on the application strategy of micro course in computer teaching in colleges and universities

Li Ruijuan¹, Zhang Shunji^{2,*}

¹Qujing Medical College, Qujing, Yunnan, China

²Qujing Normal University, Qujing, Yunnan, China

*Corresponding author

Keywords: Colleges and universities; Computer teaching; Micro class

Abstract: In college computer classroom teaching, the traditional classroom teaching model no longer meets the learning needs of students in the new era. Many students pay great attention to personalized learning methods, and micro class video can be made into vivid video according to the key and difficult points of teaching content, which can fully stimulate students' vision and hearing, effectively enhance students' sensory function and improve the effect of the whole classroom teaching. Through diversified teaching modes and teaching concepts, we can also comprehensively improve the video teaching level of micro class and enhance the quality of classroom teaching. This paper uses the teaching mode of micro class video to bring students a new teaching experience and meet students' personalized growth needs.

1. Introduction

In the new era, information technology has become a necessary skill for everyone. Only by making full use of computer technology and strengthening the level of information management can we adapt to the continuous development of society. However, in computer classroom teaching in Colleges and universities, it is difficult to help students master correct computer operation skills if they only explain theoretical knowledge and ignore students' practical operation. In view of this problem, colleges and universities use micro class videos to help students digest and understand various basic knowledge and improve students' practical operation ability, So that the effect of classroom teaching can be greatly improved. There is a great difference between the micro class teaching method and the traditional face-to-face teaching method between teachers and students. Micro class teaching mainly depends on the connection of video teaching resources, and the time of interaction and feedback is limited, Especially teachers' own resources (such as posture, language, expression, eyes, etc.) are difficult to give full play to their role. At the same time, teachers can not timely understand students' understanding and acceptance of knowledge points in the process of micro class teaching, nor can they timely adjust the classroom design according to the learning situation. They can only complete some stylized narration and guidance according to the teaching preset. From the overall perspective of micro class teaching Degree analysis, "blind teaching" and students' individual learning interest, self-control ability and learning habits will significantly affect their learning effect. Therefore, the teaching effect of micro course is closely related to each student's learning attitude, learning ability and learning environment. Only by clarifying the characteristics of micro course teaching can we carry out targeted teaching.

2. Development status of computer teaching in Colleges and Universities

Under the background of the rapid development of computer technology, information technology has also been developing continuously, which can provide people with help in life and work. Therefore, many colleges and universities have carried out computer teaching. However, as a relatively emerging field, the teaching content of computer is significantly different from that of ordinary courses, All the basic knowledge of computer can only be obtained by practical operation

on computer, which has higher requirements for classroom teaching. When many colleges and universities carry out computer teaching, they mainly focus on traditional classroom teaching. The current situation of teachers talking about students' notes has not changed, which easily leads to students' inability to actively participate in classroom teaching, resulting in students' boring feeling and finally losing their interest in learning. To solve this problem, in college computer classroom teaching, teachers need to focus on strengthening the in-depth analysis and judgment of computer content, improve the overall quality and level of classroom teaching, enhance the overall effect of classroom teaching, and ensure the overall improvement of the efficiency of computer classroom teaching. Through the micro class video teaching method, we can deeply explore the key and difficult knowledge, avoid rote learning, improve the flexibility of classroom teaching, and also conform to the cognitive law of students. By repeatedly learning the courseware, students can make in-depth analysis on the problems they don't understand, so as to enhance the overall effect of teaching and improve students' learning quality.

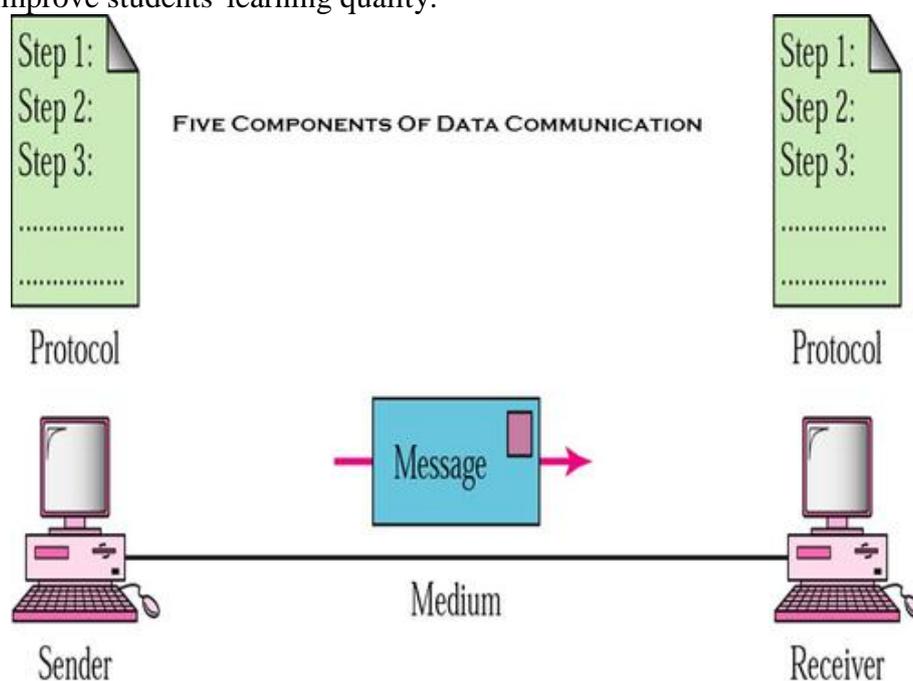


Figure 1 Micro course of computer teaching

3. Necessity of application of micro course in computer teaching in Colleges and Universities

Making full use of micro class video in computer teaching in Colleges and universities can help students make an in-depth analysis of the knowledge learned, deeply understand the knowledge after production before classroom teaching, enhance the overall efficiency of learning, and grasp the teaching content in all aspects to facilitate students' later learning. In classroom teaching, teachers need to make the key knowledge of teaching into micro class video, let students watch it repeatedly, fully stimulate students' learning interest and characteristics, improve students' learning initiative and enthusiasm, and enhance the quality of classroom teaching. Micro class video is not limited by time and space. It can help students learn anytime and anywhere and enhance the overall level of teaching. As a new classroom teaching mode, micro class video plays a very important role in classroom teaching. It can encourage students to participate in classroom teaching, highlight the key and difficult points of teaching, and strengthen targeted guidance to students. The capacity of micro class video is very small. It can carry out multiple training for a single knowledge point to strengthen students' understanding and memory ability. Students can also play micro class video repeatedly through mobile phones and tablets to achieve efficient learning anytime and anywhere. There are many computer courses in Colleges and universities, the teaching methods are single, and there is a large gap between them and practical application. In addition, students' computer foundation is different, and teachers' teaching methods are single in teaching. Therefore, it is

necessary to introduce micro courses into computer teaching in Colleges and Universities.

3.1 There are great differences in students' computer skills

At present, many colleges and universities carry out computer teaching activities in the form of class collective teaching, but college students come from different areas of economic development and educational water, and their computer knowledge and operation skills are quite different, which affects students' adaptability to computer courses. In addition, there are a large number of College students, so they can not teach students according to their aptitude,

3.2 Singleness and dryness of teaching methods

As a result, the quality of computer teaching is low, and the computer level gap between students is not narrowing, but gradually widening. College computer teachers pay more attention to the explanation of theoretical knowledge and operation skills in classroom teaching, and rarely consciously combine theoretical knowledge with real life scenes to increase the interest of teaching. The singleness of teaching means comes from the backward teaching mode, which often does not pay attention to the individual differences of students and ignores the introduction of modern information technology and teaching methods.

3.3 There are many teaching contents and there is a large gap between them and the actual needs of the society

At present, many computer courses in Colleges and universities pay attention to the explanation of theoretical knowledge, and tend to use software for practical courses. On the one hand, there are some differences between these software and computer professional knowledge, and will become increasingly lagging behind with the development of computer technology. On the other hand, it will also affect the positioning of computer teachers' curriculum objectives. In addition, from the computer course itself, there are many contents, such as digital image processing technology. There are many details and functions, so teachers can't cover everything. Teachers explain the main contents in class, and the details can be supplemented through micro classes. Students can learn by themselves according to their actual needs.

4. Specific application of micro course in computer teaching in Colleges and Universities

4.1 Making of micro course courseware

There are significant differences between micro class video and ordinary teaching courseware. In the actual teaching, it is necessary to take students as the center, let students analyze the knowledge they have learned, attach great importance to the arrangement of micro class video content, ensure the continuity of the whole classroom teaching, and can not ignore any step. In the actual production, the interest differences of different students should be fully considered, Let every student feel the charm of teaching. In the video teaching of micro course, we should first ensure the excellence of the teaching content, and simply convey the computer professional terms to the students in easy to understand language according to the students' personalized characteristics. Through vivid metaphors or humorous pictures to deepen students' understanding and enhance the overall effect of teaching. In the micro class video teaching, it is also necessary to conduct a comprehensive analysis according to past experience to make the course teaching content truly show. Students should control the reasonable time and scope of recording when recording the micro class video, so as to avoid too much content occupied by the micro class video, which will lead to the whole classroom teaching becoming a video playback course. After the micro class video teaching is completed, it is also necessary to carry out post editing, Add rich special effects to attract students' attention.

4.2 Review and consolidation of knowledge points in micro class video

In the development of classroom teaching, in order to enhance the mutual cooperation between micro class video and traditional teaching, it is necessary to strengthen the comprehensive editing of

micro class video content and enhance the experience effect of micro class video teaching. In the actual classroom teaching, we should focus on the content of classroom teaching, make appropriate supplements and explanations, and improve the overall level of learning, It can also enable every student to have a strong interest in the knowledge of micro class video and enhance their own learning experience. In the actual micro class video teaching, we should also pay high attention to the key and difficult points of teaching. Through in-depth grasp and communication of different knowledge, we can improve students' mastery of micro class video, promote students to watch micro class video for many times, and increase their understanding of knowledge and skills. After the classroom teaching activities are carried out, we should make full use of the micro class video to enable students to fully review and study the knowledge points, enhance the overall effect of learning, improve students' sense of achievement and satisfaction, enable students to fully grasp the key and difficult points in the micro class video, and improve the overall quality of classroom teaching. In the development of the micro class video teaching mode, We should also pay close attention to the grasp of key and difficult knowledge, and fully explain the knowledge points that students generally reflect the existing problems, so as to improve the efficiency of teaching and enhance the level of classroom teaching. For example, when learning computer software and its application topics, computer teachers can implement introduction with the help of micro courses. First, teachers can vividly display several commonly used computer software in the video content of micro class, such as instant messaging software, video software, music player software, etc., and introduce the concept of computer software, so that students can stimulate their learning interest and enthusiasm in interesting display, And have a general understanding of the specific concepts of computer software. Second, teachers can show the main teaching tasks to be solved in the micro class video, understand what computer software is and the classification of computer software, and understand the development trend and application of computer software, so that clear task settings and interesting graphic display can stimulate students' passion for inquiry learning.

Table 1 Micro class video computer software

Type	Instant messaging software
	Video software
	Music player software

4.3 Carry out video review of micro class after class

There are many practical operations in the teaching of computer courses in Colleges and universities, which are very difficult, so that students can not accurately understand the relevant knowledge. Therefore, we should actively guide students and guide students to operate through the rational application of micro class video. In classroom teaching, most micro class videos can fully explain the key and difficult knowledge. Teachers can let students freely choose different micro class video teaching modes to enhance the rational use of micro class videos. Teachers can upload micro class videos to the Internet, which students can choose to download, and analyze and answer different knowledge points, Improve students' autonomous learning ability. Micro class video can also guide students to make micro class video by themselves through mastering computer professional knowledge in actual teaching, which can also deepen the understanding of knowledge, so as to make full use of relevant skills and improve students' practical level. In the review stage after class. Through the micro class video, a single knowledge point can be explained separately in a limited time, which can not only reduce the memory of the micro class video, but also really enable students to learn the knowledge they are interested in, save a lot of after-school time and make students' learning more dynamic.

5. Conclusion

Micro class is the product of the information age. The emergence of micro class has broken the wall of colleges and universities. The application of micro course in computer teaching in Colleges and universities can improve teaching quality and efficiency, reduce teachers' burden and stimulate

students' interest in learning. The introduction of micro class into the teaching field also puts forward higher requirements for teachers. In the production of micro class, teachers should learn the advantages of other excellent teachers' micro class, have strong knowledge generalization ability and accurate language expression ability, and learn various video production skills. The production effect of micro class directly affects the classroom teaching effect. With the continuous improvement of the level of science and technology and the production quality of micro courses, the application of micro courses will be more and more perfect, and the application prospect of micro courses in computer teaching will be broader.

References

- [1] Song Jinling, Kang Yan, Huang Liming Application of micro course in computer course teaching in Colleges and universities [J] Food research and development, 2021,42 (22): 250.
- [2] Xia Wangxia Overview of application strategies of micro course in computer teaching in Colleges and universities [J] Science and technology horizon, 2021 (18): 47-48.
- [3] Lin Hualong Application of micro course in computer teaching in Colleges and universities [J] Neijiang science and technology, 2021,42 (05): 51-52.