

# On the Application of Multimedia Technology in Computer Teaching

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**Abstract:** Due to the fast progress of Internet and computer technology, multimedia technology has been widely applied in the field of education. While teaching computer, multimedia technology has been widely used and it is vital to promote the development of students' computer knowledge content learning activities. According to the specific situation of computer teaching in China, this paper puts forward the important role of multimedia technology in computer teaching, analyzes the application of multimedia technology in computer teaching, and formulates the application measures of multimedia technology in computer teaching.

## 1. Introduction

In the new era, with the fast progress of China's society and economy, science and technology are changing greatly, and education is also developing in the direction of more networking and informatization. In the teaching of all subjects, multimedia technology has been used, and computer teaching activities are no exception. In the process of carrying out computer teaching activities, to promote the quality of teaching, it is necessary to carry out in-depth research activities of multimedia technology, and fully reflect the auxiliary role of the technology.

## 2. Main Multimedia Technology in Computer Teaching

### 2.1 Multimedia Courseware

In computer teaching activities, multimedia courseware belongs to the category of teachers' auxiliary means. Teachers can integrate teaching content, objectives, methods and multimedia courseware into a whole, and use courseware to reflect teaching objectives and important knowledge points. PPT is a software often used in multimedia courseware, which can add text, pictures and other effects. This requires that before carrying out classroom teaching activities, teachers should complete the courseware making activities. In the classroom explanation activities, while playing the courseware, teachers should also carry out the explanation activities of knowledge content. As for the content of key knowledge, teachers can play it many times. As for the learned knowledge, teachers can finish it in a short time and reduce the writing time on the blackboard.

### 2.2 Video Technology

During computer teaching activities, the so-called video technology refers to using computers to process the text content in teaching materials, and add text, sound and images to promote the generation of video files and help students carry out relevant learning activities. Teachers can autonomously carry out the production activities of video files, and can also directly use some excellent video files. In the process of carrying out knowledge content explanation activities, teachers can directly play the video files, or send to students in advance, require them to carry out learning activities by themselves after class. Flash Animation and Corel VideoStudio are typical video software. With the fast progress of the social era, micro video emerges as the times require. Using mobile terminal devices, such as tablet computers and mobile phones, students can carry out learning activities of computer knowledge content anytime and anywhere. In view of the problems in learning, students can communicate with teachers online and carry out relevant communication

activities with classmates. Knowledge content becomes more diversified, and using micro video technology can help students master more knowledge.

### **2.3 Virtual Technology**

When carrying out computer teaching activities, virtual technology has a wide range of applications. Virtual technology mainly carries out simulation activities for computers through computer software. Its important role is to apply multiple operating systems to the same computer. In the process of carrying out computer hardware knowledge content teaching activities, it can create more practical opportunities for students, and help students to carry out practice activities of some operation skills, such as formatting, operating system installation, backup, hard disk partition, etc., which can help students have a more in-depth understanding of multiple computer systems and strengthen students' operation activities, promote students' computer practice ability, enhance the quality and efficiency of computer classroom teaching.

## **3. Important Role of Multimedia Technology in Computer Teaching**

In the traditional computer teaching activities, the teacher dominates the whole classroom and is responsible for explaining knowledge content, which affects students' learning enthusiasm to a great extent, and it is difficult to achieve the ideal teaching effect. The application of multimedia technology in computer teaching activities can make the original boring knowledge content more vivid and specific, and help students understand and master the relevant theoretical knowledge content in depth. Students can also make their own choice of learning content according to their own specific situation. Computers can also scientifically analyze the specific situation of students, and on this basis, optimize the learning content and the degree of difficulty, strengthen the understanding activities of students' knowledge content, and help to improve the learning efficiency. As for the reception of human information content, it mainly uses vision and hearing to complete. Using multimedia technology can produce a certain attraction to students, promote students' observation ability, accelerate the development of students' learning activities, and improve students' autonomous learning ability. Meanwhile, it can also stimulate students' interest in learning and promote students' learning efficiency.

## **4. Application Situation of Multimedia Technology in Computer Teaching**

### **4.1 Low Degree of Attention to Students' Dominant Role**

Applying multimedia technology in computer teaching activities is mainly to make classroom teaching activities more vivid and interesting, so as to arouse students' interest in learning, help students actively take part in classroom learning activities, and help students better understand and master relevant knowledge. However, in the specific computer teaching activities, many teachers only increase the use of multimedia, and do not fully show the main role of students. In some teaching activities, students become more passive, which is contrary to the original goal of the application of multimedia technology.

### **4.2 Unscientific and Inefficient Multimedia Courseware**

While using multimedia technology to develop computer teaching activities, the requirements for teaching courseware are more stringent. In addition to the requirements for more diverse related content, teachers should also enhance the image, increasing the difficulty coefficient of teaching courseware design. However, during computer teaching activities, most teachers have a serious resistance to the design of high-quality teaching courseware. In their view, this kind of teaching courseware takes a lot of time to design. As a result, many computer teaching courseware only copy the book knowledge content, and the designed courseware also lack vivid music, animation, video and other content, hard to meet the teaching needs.

## **5. Application Measures of Multimedia Technology in Computer Teaching**

### **5.1 Correctly Understand Multimedia Technology**

In computer teaching, multimedia technology only plays a certain auxiliary role. Using multimedia technology can make the original abstract theoretical knowledge content more vivid, and integrate music, text and image into a whole. Compared with the traditional computer teaching activities, the application of multimedia technology has many advantages. However, while carrying out specific teaching activities, teachers should make scientific control over the utilization of multimedia technology, and fully reflect the role of multimedia technology. In the specific multimedia technology application activities, all activities should be based on the teaching content of computer, and other forms and contents only play a certain auxiliary role, which can help students understand and master computer knowledge in depth, and enhance students' computer learning initiative.

### **5.2 Highly Respect Students' Dominant Role**

When using multimedia technology to carry out computer teaching activities, computer teachers should keep pace with the times, pay attention to transforming their traditional educational ideas, have a correct understanding of the important role of multimedia technology, and renew the positioning activities of the application of multimedia technology. In the specific teaching work, teachers should effectively reflect the dominant position of students. When using multimedia technology to carry out computer teaching activities, teachers should further strengthen the communication and interaction with students, so that students can have the courage to question and fully show their own views. Teachers should also provide more space for students to help them actively carry out thinking activities. After the explanation of the content of theoretical knowledge, teachers should also set aside more time for students to carry out practical activities, which can help students better understand the content of theoretical knowledge, enhance their practical ability, and fully reflect the main role of students.

### **5.3 Make Multimedia Courseware Earnestly**

When using multimedia to develop computer teaching activities, multimedia courseware is one of the important contents, playing a vital role. In the process of carrying out computer teaching activities, teachers should attach great importance to multimedia courseware production activities, and invest more time and energy in related production activities. In the specific production work, in view of the knowledge content difficult to understand in the books, teachers can use graphics, text and sound in multimedia courseware to help students better understand the relevant knowledge content, and promote the classroom teaching atmosphere to become livelier, so as to focus students' attention, stimulate students' interest in learning, and improve the efficiency of computer classroom teaching. In order to make more high-quality multimedia courseware, teachers should also focus on developing diversified learning activities, master more knowledge and skills, promote their own application ability of multimedia technology, reflect the role of multimedia technology efficiently, and strengthen the efficiency of computer classroom teaching.

## **6. Conclusion**

In computer teaching activities, multimedia technology plays a vital role as a teaching means. The use of multimedia technology is helpful to mobilize students' interest in learning, help students actively participate in the teaching activities, improve the quality of classroom teaching, help students master more computer knowledge and skills, accelerate the development of computer talent training, and greatly promote the progress of information technology in China.

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