Study on the Application of Computer Technology on Education

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Abstract: With the continuous development of China's social economy, it has promoted the continuous development of computer science and technology in our country, which has made various computer science and technology widely used in all walks of life, which have had a huge impact on people's lives, work, and studies. Especially in the field of education, the impact is more significant; at present, most schools have set up special multimedia teachers. Some developed cities in China have gradually begun to implement a new teaching model of computer education. Nowadays, more and more city governments have invested a lot of funds, to build a computer education pilot class. This article discusses and studies the application of computer science and technology in computer education.

1. Introduction

The addition of computer technology is of epoch-making significance for education. It has transformed education from a traditional single-person teaching model to a multi-functional modern teaching model. The new computer-assisted education model combined with multimedia teaching software makes the education method livelier, full of interest, enhances students' learning enthusiasm, cultivates a strong interest, and makes students' memory of knowledge points deeper. It is also very helpful to the learning atmosphere and learning effect. The application of computer technology in education has also increased the utilization of resources. As a powerful carrier, the computer is like a database. It realizes the sharing of resources, facilitates the exchange of resources between students, facilitates the collection and circulation of educational resources on the computer carrier, and provides a more convenient way for students to find and browse learning materials, and also for students repeated learning and practice provide a platform. Computer technology has made resource sharing more convenient, fast, and everywhere, making education handier and the requirements of the educational environment are also more unlimited. The application of computer technology in education has greatly saved the cost of education. With the application of computer technology, many new teaching modes have emerged, such as the wide application of distance teaching and online teaching. The cost of education is reduced, the cost of learning is reduced, and there are more choices according to their own economic situation, students have more learning opportunities, and the coverage of teaching is expanded.

2. The Positive Role of Computer and Web Technology in the Application of University Teaching Management

At this stage, with the advent of the information age, computing technology and network technology have been more widely used in social life, and it has also been widely used in university teaching management. Compared with traditional teaching management methods, computer with the application of WEB technology, the efficiency and quality of teaching management have been significantly improved, and the development of high-efficiency and standardized development of teaching management in colleges and universities is conducive to the modernization of teaching management in colleges and universities. In this process, the positive effects of computer and WEB technology are mainly reflected in the following aspects. In the classroom teaching process, on the basis of computer and WEB technology, through the use of multimedia and other informatization methods, the traditional boring classroom teaching environment is improved, and the teaching

situation combined with the teaching content is created, and the teaching content is passed intuitively Video, pictures and other methods are displayed, so that students have a good learning atmosphere, stimulate their interest in learning, and effectively improve the efficiency and quality of classroom teaching. The application of computer and WEB technology in university teaching management, The application of computer and WEB technology in university teaching management is mainly based on students, research and discussion around relevant teaching content, and fully integrate WEB technology the characteristics are integrated into the teaching management, the teaching content is vividly and intuitively displayed to the students, and at the same time, the students can actively choose the teaching resources they need. This will help the students to improve their independent learning ability, learning enthusiasm and active innovation ability. At the same time, it is conducive to promoting the improvement and innovation of traditional teaching methods and models. The application of computer and WEB technology in teaching management can break the traditional teaching time and place restrictions, so that the communication between students and teachers is no longer limited to the classroom, and is not understood in the learning process. Questions can be communicated in a timely manner, so that teachers can know the specific situation of students' learning at any time, which is conducive to the feedback of teaching effects and the progress of teaching management. In teaching management, compared with traditional working methods, computer and network technology has a relatively large data information capacity and a very high work efficiency. Use it as an information carrier for teaching management and related teaching resources the transmission of can effectively improve the quality of management work and save a lot of manpower and material resources, so it has become an important technical means of current university teaching management.

3. Practical Application of Computer Science and Technology in Computer Education

As far as the practical application effect of computer is concerned, its most distinctive role is to be more convenient, easy to operate and efficient. In the daily management process of schools and teachers, the traditional methods are adopted to deal with the complicated things that students produce during school learning. The daily management method not only fails to achieve the expected management effect, but also has low management efficiency. It cannot effectively understand and control the students' daily learning and life. However, it is used in the student's daily learning management process Computer science technology can carry out all-round management and control of students' daily study and life, and it just makes up for the shortcomings of the traditional management model; for example, the daily homework assigned by the teacher to the student is generally after the teacher assigns it. The students then use their spare time to complete the work, and then the class representative will collect it and give it to the teacher for inspection. The teacher will send it out after the inspection. However, after using computer science and technology, great changes have occurred. The teacher uses computer science and technology to manage the students' daily homework can save many steps in the middle. Teachers can directly assign homework on the Internet. Students can use the computer to complete the homework and then directly hand it over to the teacher through the Internet. The teacher will return it to the student directly after the check. The whole process is relatively high. Efficiency and high quality, it saves the time and energy of teachers in arranging homework, students handing in homework and teacher returning homework. In addition, in the usual testing process of students, the traditional test is usually at the examination room equipped with at least one or two teachers responsible for invigilating the examination, which obviously increases the daily workload of teachers. There are usually dozens of students in an examination room. The entire test time generally needs to last about two hours, which makes teachers need to bear more work. Conversely, if the school uses special testing software to test and invigilate students with computers, the test papers are handed over to teachers for review after the test is completed. This whole process not only reduces the teacher's daily workload, but also helps teachers improve their daily routines. Work pressure also saves the cost of daily tests in schools.

Because the computer can be used anytime and anywhere, it is not constrained by time and space,

and the computer has features such as fast access and fast upload, which maximizes the convenience of students' daily learning. Students can use the computer Internet search function to quickly and accurately find the information you want. In addition, the learning resources on the Internet are very rich, which helps to inspire students to think about problems independently, improve their ability to think and solve problems, and cultivate students' ability to infer other things, and students will learn it's relatively easy. The learning resources on the Internet are very attractive to students, and students are very interested in learning. Driven by this interest, students are learning independently and become more and more like learning. The Internet is broad In the actual classroom teaching process, there are more rich topics in the interactive communication process between teachers and students, which in turn creates a relaxed and pleasant classroom learning atmosphere, Students learn and master knowledge points in the discussion, and experience the fun of learning knowledge points in the discussion; in addition, because each student's acceptance and learning progress are different, the traditional teaching mode usually adopts instillation teaching Mode, the whole class listens to the teacher's explanation under the stage, makes full use of the Internet's characteristics of not being restricted by time and space, can flexibly transform classroom teaching practice activities, and send videos related to classroom explanation knowledge points to each student, so that students can Comprehensively grasp the teaching content in the classroom, and can also help students deepen the impression and memory of these knowledge points by sending some relevant extracurricular video materials to students, so that teachers and students are not restricted by the 45-minute class time. Originally, there was not enough time to explain the knowledge points in the textbook, and there was no time to think about the students to explain the extracurricular knowledge points. Now this teaching mode has solved these problems well.

Reasonably and scientifically use computer science and technology in computer education and teaching to effectively enrich the teaching methods of teachers. During the learning process of students, not only static text and pictures can be seen, but also dynamic video materials can be seen, making classroom teaching it become more interesting, vivid and intuitive, which helps students understand and master knowledge more easily. Computer teaching not only has a large number of rich teaching resources and learning resources, but also has the characteristics of saving resources. If the existing teaching materials are turned into electronic It can not only save a lot of paper, but also save a lot of investment in educational resources, such as manpower, material resources, and economics, and help student families reduce the cost of student learning. In terms of student learning content, reducing student learning costs also enriches teachers' teaching content and teaching methods without reducing student learning content. In addition, as an auxiliary teaching tool, computers can be carried out anytime, anywhere. Use, when students want to learn to recite or read a text, they can find the recitation and reading of various famous teachers and experts in the computer. Not only video and audio, but also related animation can be found, which effectively enriches computer teaching resources. Help students better understand the text, deepen the understanding and memory of the text, turn the boring recitation into a lively, interesting, and promote students to improve their academic performance and learning ability.

4. Prospects for the Application of Computer Science and Technology in Education

Students continue to explore and innovate in a specific computer learning environment, they can continuously establish their theoretical learning, and actively seek learning methods to improve learning efficiency. Students can improve their control over the learning environment by simulating the learning environment in the computer. In this process, constantly strengthen the exercise of thinking and use all kinds of knowledge. Finding solutions to problems, strengthening the understanding of knowledge, and flexibly using the learning materials in teaching activities. Computer science technology helps students organize and use learning materials to improve their knowledge reserves in basic teaching.

Students can use computer technology as support in the learning process to strengthen their own ability to participate, so that students can use computers to provide them with various forms of information applications during the learning process. This is hypermedia. The use of hypermedia

capabilities can help create a student-centered multimedia teaching and learning environment, which can not only effectively improve students' learning ability, but also enable students to actively explore and seek knowledge in the learning-centered range, and improve students the depth and breadth of learning. In the hypermedia teaching environment, teachers only play a guiding role, and students are the central point of the learning environment.

5. Conclusion

Under the continuous development of computer science and technology, in order to make traditional education methods better meet the needs of society and its own development, education and teaching methods must be constantly innovated and reformed. With the support of computer technology, many teaching methods will It will become very rich. At the same time, the use of computer technology in teaching management can combine computer technology with traditional teaching work. Traditional teaching work and computer science technology become closer, which will not only help improve the quality of teaching can also be controlled by teaching content. At present, the most important thing is that education faces the future, but the most important task for educators is to innovate and reform the existing teaching technology, so that the application of computer science technology can flourish in education.

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