

The Influence and Application of Multimedia Technology in Higher Education Teaching

Yu Song*

Xijing University, Xian, China

songyu@xijing.edu.com

*corresponding author

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Abstract: With the continuous development of China's economic system, the development of the network is also in continuous progress, which makes multimedia technology has become an indispensable part of People's Daily life and work. At present, multimedia technology is also applied in the education industry. In daily education activities, the application of multimedia technology can effectively relieve the monotony of the classroom and enable students to better perceive the knowledge they want to learn through the application of multimedia technology. Video and pictures presented by multimedia technology can help students to make complex problems easy to understand, and students can also feel more active in learning multimedia technology. In this case, the author's summarizes the application and development of multimedia technology in China's education industry, explores the current situation of multimedia in the education industry, and explores its influence and application in the education industry.

1. Introduction

The so-called modern educational technology refers to the behavior of making a breakthrough in the theory and practice of modern education by using teaching resources and practical activities on the basis of modern educational ideas and technologies. Under such circumstances, in order to have a deep understanding of the internal relationship between modern educational technology and multimedia, it is necessary to deeply explore the basic relationship between the two. Only through the phenomenon to see the nature of the relationship between two things can we further understand the impact of multimedia technology in modern education technology. At present, the design, development and application of resources in the process of education are closely related to the support of multimedia technology. Multimedia technology not only has a lot of interactivity and diversity, but also can be better integrated with modern educational technology, so as to be an indispensable tool in the process of education in colleges and universities.

Current multimedia technology is able to video, pictures, text and so on through a series of internal conversion and mutual integration. These in essence belong to the same system. In the application of multimedia technology, not only the computer hardware is playing a role, but also the computer software is playing a very important role. Using multimedia technology, the most important is to provide help for modern educational management according to the use of its equipment and functions. At present, the education system of colleges and universities is implemented by the software application of multimedia technology.

2. The Definition and Characteristics of Multimedia Teaching

2.1. Definition of multimedia teaching

Multimedia courseware is based on the requirements of the curriculum standards and the needs of teaching, through the teacher's teaching design, the performance of multimedia and hypertext structure into the curriculum software multimedia teaching is to teach students by means of teachers operating multimedia computers and using projectors to increase the screen.

2.2. The characteristics of multimedia teaching

Multimedia teaching is more direct and expressive. The rich expressive force of multimedia is incomparable to that of traditional blackboard writing. In addition to presenting information in words, it can also play sounds, images and animations. Multimedia vivid teaching model can stimulate students' interest in learning, active classroom atmosphere, make students to difficult knowledge no longer feel boring and boring. Especially when it comes to abstract content, animation simulation can help students understand the whole process intuitively, reduce the learning difficulty, and be more easily accepted by students.

Multimedia teaching interactive and greatly improve the efficiency of teaching. The most prominent advantage of multimedia teaching lies in the interactivity of computer media. In the process of multimedia teaching, students can communicate with computers to learn, which will greatly enhance students' learning initiative and improve the learning effect. And the teacher will do a good multimedia courseware in advance before class, class, as long as a point, a theorem, a formula came out, than the spot writing save a lot of time, improve the teaching efficiency.

3. The Role of Multimedia in College English Teaching

3.1. It is beneficial to broaden students' horizons

Multimedia is conducive to the expansion of students' English knowledge, so that students in the process of learning will not only stay in the textbooks, but also look at the world, breaking the limitations of textbooks. College teachers should change the traditional teaching method according to the teaching content, not only dig knowledge from the textbook, but also expand the knowledge, so that students' English thinking can be improved. Teachers can use multimedia technology to increase the amount of knowledge for students, with attractive pictures, video and other active classroom atmosphere, so that students in the class to improve learning efficiency, while expanding the scope of knowledge of students.

3.2. It is beneficial to improve students' English literacy

College students generally have independent learning ability and no longer need the supervision of teachers as before. Therefore, in the process of using multimedia, teachers should make it easy for students to understand English content in the process of learning, so that students can learn English more easily. College students have certain English literacy. For example, when explaining the words "announce", "announcement" and "annunciate", teachers can use multimedia to explain to students, summarize grammar, sentences and word discrimination in English with students, and constantly improve their English literacy. Teachers can also use multimedia technology to create a good situation for students, show the differences between different words, and explain parts of speech, roots, affixes, etc., so that students can find the rules of learning English and improve the efficiency of learning English.

3.3. It is beneficial to optimize the structure of classroom teaching

Teachers use multimedia to carry out English teaching, more conducive to the reasonable arrangement of teaching content and teaching links. Use multimedia to enable students to learn various phrases, words and sentences on the basis of learning words, also can analyzes English sentences, so that students can more easily distinguish sentence structure, for learning English text lay a certain foundation. Use multimedia to develop topic design, so that students can learn better in practice, master all kinds of English knowledge, and improve the efficiency of the course.

4. Multimedia Application of Piano Teaching in Colleges and Universities

4.1. Using multimedia teaching, innovative college piano teaching objectives

Traditional teaching methods are bound to present the above two problems. So how to improve the old teachers in the class appear insufficient, is very important. Teachers should adapt to the

rapid development of education, achieve the innovation of teaching objectives, but also continue to improve, a suitable for students to successfully apply the teaching objectives into the classroom. In class teaching, we must pay special attention to the goal of piano teaching, timely observe and understand the status of students in class and the mastery of relevant knowledge points, and make full use of multimedia teaching to enable students to have group discussion or group discussion, and enhance students' self-learning awareness. The classroom teaching becomes rich and colorful, the multimedia teaching the beauty and the function carries on the full utilization. One is that in the teaching of art colleges and universities, teachers should have enough understanding of students, communicate with students more, grasp the real ideas of each child, so that each child can develop in a comprehensive and balanced way.

4.2. Use multimedia teaching to improve students' learning enthusiasm

Since entering the 1990s, multimedia technology has been rapidly rising and developing. Its application has spread all over the national economy and social life, and it is bringing great changes to the way of production, work and life of human beings. Because multimedia has the characteristics of picture, text, sound and even moving images, it has many features and functions that are particularly valuable for education and teaching process. When teachers give lectures, multimedia teaching can help students understand the teaching content more intuitively. For example, the teacher happened to talk about the leapfrog playing method in class. If the traditional teaching method is not clear to the students, they can use multimedia to play the leapfrog playing method and show it visually. Multimedia teaching gives full play to students' initiative and enthusiasm, and helps them gain effective cognition. It also cultivates students' creative thinking, which is of great value and significance.

4.3. Use multimedia teaching to deepen the content of piano teaching

In the process of piano teaching in colleges and universities, teachers should respect students' autonomy, cultural differences and the mainstream of teaching.[2] nowadays, multimedia teaching has become the mainstream of school teaching, which has changed the traditional teaching method of using blackboard. When teaching, teachers can collect more knowledge about piano for students and enrich the knowledge of piano teaching. This can not only broaden the horizons of students, but also supplement the relevant knowledge of students, know more knowledge. For example, when learning piano theory, the teacher can search various contents about foreign piano players and use multimedia to play music, so that the students can appreciate and analyzes it and increase their interest in learning and aesthetic taste. You can also search the history of piano and discuss it with students to improve the atmosphere of the class.

5. The Concrete Strategy that Multimedia Technology Supports College Physical Education Teaching

5.1. The multimedia technology supports the college physical education teaching, needs the teacher to enhance own comprehensive quality

Physical education teacher is the leader of the whole physical education teaching and students physical exercise. Specific measures: first, physical education teachers take the initiative to change the original traditional teaching ideas and ideas, dare to try new teaching methods and teaching methods in the classroom. Second, physical education teachers take the initiative to learn new teaching methods and teaching techniques, for example, take the initiative to learn multimedia operation skills, skilled use of multimedia technology to carry out classroom teaching. Thirdly, PE teachers should be truly student-oriented, be good at adding new teaching elements to attract students' attention, cultivate students' interest in classroom learning and training, and enhance their enthusiasm and initiative in classroom learning and training.

5.2. The multimedia technology supports the college physical education teaching, needs to achieve stimulates the student physical exercise interest

To arouse students' interest in physical exercise, students can take the initiative to do physical training, and can take the initiative to learn the methods and skills of physical exercise, so as to achieve twice the result with half the effort. As a new teaching method, multimedia technology supports college physical education, which has advantages that traditional teaching does not have. Therefore, teachers need to highlight this teaching advantage in the teaching process and stimulate students' interest in physical exercise.

5.3. It is necessary to enhance the conciseness and practicability of courseware to support college physical education

In multimedia technology support problem is most often present in colleges and universities sports teaching teachers to attract students' attention to enhance students' interest in training courseware of bells and whistles, makes the students did in class spirit is loosened, but the attention is not focused, student interest is high, but very not clear learning objectives, lesson down, little. So the multimedia technical support the universities sports teaching, also need to strengthen the courseware of simplicity and practicality, the multimedia technical support in colleges and universities sports teaching is more effective, more efficient, make multimedia technology support in colleges and universities sports teaching is more prominent, highlighted advantages, strengthen students' subjective initiative of sports training.

5.4. In order to support college physical education, multimedia technology needs to enhance the scientific and professional nature of courseware

In order to support college physical education, multimedia technology needs to make courseware more scientific and professional. To achieve this, the specific requirements are as follows: first, when making specific teaching courseware, teachers should correctly recognize students' characteristics, habits and hobbies, respect students' cognitive characteristics, respect students' acceptance degree and speed, and carefully select appropriate teaching content. Second, when making specific teaching courseware, teacher pay attention to the professionalism of the materials selected in the courseware, so that the courseware not only has the aesthetic feeling and sense of image that the original teaching method does not have, but also needs to make the courseware content more suitable for students' physical quality at this stage and closer to students' practice.

5.5. Multimedia technology support college physical education teaching, need to do multimedia demonstration

The multimedia technology supports the physical education teaching in colleges and universities to inject new vitality into the physical education classroom, improve students' interest and initiative in physical exercise, and enhance the aesthetic colors of physical exercise. Through the teacher's behavior demonstration to strengthen the students' impression, enhance the students' perception of the strength of exercise. Multimedia technology support college physical education teaching, also need to do multimedia demonstration and teacher behaviors demonstration combination.

6. The Practical Effect of Multimedia Teaching Mode in the Design of Digital Learning Resources

6.1. Improve the browser ability of digital learning resources

The brows able of digital learning resources can also be called the brows able adaptability of digital learning resources. It is the basis of the design and construction of digital learning resources and also the prerequisite for college students to study digital learning resources. The diversity of digital learning resources makes more and more learners and educators choose digital learning resources and multimedia teaching mode. The effective improvement of multimedia teaching in the visual interaction design of digital learning resources can not only satisfy learners' centralized grasp

of the content information and interactive information structure of learning resources, but also effectively improve the overall readability of teaching resources and reasonably complete the expression of teaching structure and information emotion.

6.2. Improve the signal-to-noise ratio of digital learning resources

Signal-to-noise ratio (SNR), also known as signal-to-noise ratio, originally represents the voltage ratio of output signal and voltage signal of equipment to synchronous output noise signal in electro acoustics. Generally speaking, the larger the signal-to-noise ratio is, the smaller the noise of the output signal is, and vice versa. In the design and development of digital learning resources, the signal-to-noise ratio is used to indicate whether the visual elements in the visual communication design are affected by other interfering elements. Through the application of multimedia teaching mode, all kinds of "noise" can be checked centrally, effectively eliminated, constantly improve the visual interaction, improve the browsing of educational resource information.

7. Conclusion

Through the above research and development, multimedia technology as an auxiliary device has played an important role in modern education. Multimedia technology has made great progress in stimulating students' learning enthusiasm and improving their learning efficiency. Therefore, in view of the current trend of the continuous development of the society, in order to continue to convey the comprehensive talents it needs to the society, colleges and universities should make full use of multimedia technology in the education of students, only in this way can the educational cause of colleges and universities continue to be successful. With the progress of The Times and the development of science and technology, multimedia teaching in colleges and universities is the general trend. Although there are still some problems and difficulties in the teaching process, we believe that multimedia teaching will play a greater role in the actual teaching process through the repeated process of discovering problems and solving problems.

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