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The Development of Multimedia for Educational Administration in Vocational and Technical Colleges in China

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Abstract

With the continuous development and widespread application of information technology, multimedia has gradually become an important component of educational administration in vocational colleges. Multimedia teaching is the use of modern multimedia technologies such as computers and projectors to transmit educational information to students through multimedia forms such as graphics, images, and sound based on the characteristics of the course itself, in order to achieve relevant educational goals. By analyzing and mining multimedia information, teachers can understand the current learning situation and effectiveness of students, and then provide targeted teaching guidance and improvement. Through extensive data analysis of multimedia technology, university teachers can plan and arrange educational resources reasonably. Therefore, with the continuous development of information technology and the increasing importance of educational administration, the application of multimedia in vocational college educational administration will continue to grow, providing more convenience and support for education and teaching.

Keywords: Multimedia, Educational Administration, Vocational and Technical Colleges

Introduction

In the 1980s, there were more and more microcomputers in the United States, and more students were able to learn and communicate through the Internet, which is why multimedia education has emerged today. In the 21st century, the internet access rate of American students exceeded 90%, and the international internet covered 80% of classrooms



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Strengthen the management of multimedia resources

In recent years, due to the rapid development of the Internet, which makes multimedia technology increasingly perfect, many educational websites for different units, different institutions and different companies have appeared. In the way of presentation, it gradually becomes diversified, at the same time, the site also has a simple categorization and refinement of teaching resources, but due to the lack of unified management of them, many schools' educational resources present a scattered and chaotic situation (Hu Xiaoyong, 2021).

Construction and Management of Foreign Teaching Resources

Nowadays in foreign countries, the United States of America, the student Internet access rate has exceeded ninety percent, the International Internet covers 80 percent of the classrooms in the United States; Britain as early as 1978 by the British Ministry of Education and Science formulated the use of computers in school education in a class of electronic technology program, so far, has developed more than two thousand kinds of multimedia teaching software; Japanese government invested 40 billion yen to build the school and the light communication network between schools, and put the multimedia operation technology into the scope of teacher assessment in higher education institutions. The Japanese government has invested 40 billion yen to build a light communication network between schools, and to include multimedia operation technology in the assessment of teachers in higher vocational colleges and universities (Fan Yun, 2018).

From this, we can see that the construction of foreign educational resources has entered a systematic and large-scale stage, foreign educational resources are mainly reflected in the following aspects: one is a larger scale of the resource base, the resources are more adequate, and more units need to be established; with the continuous development of modern science and technology, the presentation of information resources on the Internet is becoming more and more rich (Chen Yingchun, 2018).

Requirements for Multimedia Teaching Resource Management System in Vocational Colleges

In traditional classrooms, teachers give students tasks that rely on their own brains to react and answer questions. Nowadays, with a specialized multimedia teaching platform, teachers can use modern educational methods to learn about knowledge points or questions they cannot remember or understand. They can also use this professional



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multimedia teaching website for learning. And the resources on this network are carefully selected by teachers, and there will also be recommendations from other websites. Even if you cannot find the resources you need on this website, you can quickly find them on other websites. In practice, the use of multimedia technology can not only enrich classroom teaching methods, but also promote the development of students' creative thinking. Traditional teaching methods are not conducive to the comprehensive development of students. Applying multimedia teaching to the classroom can make abstract content intuitive and visual, while also enhancing students' understanding ability. In order to better utilize multimedia teaching, the following requirements have been proposed for the application of multimedia teaching resource management systems:

Firstly, Teachers need to submit materials, documents, or related applications related to their courses. Secondly. The resources for multimedia must be packaged beforehand and uploaded to the system, as well as being available for download. The name of the uploaded resources must be clear for later searching, otherwise you can't find them even if you have uploaded them, and that would be equivalent to nothing. Thirdly, From the perspective of ensuring system security, certified software must be used. Fourthly, standardize document names for materials submitted through this plan (Chen Yingchun, 2018).

The Development Stage of Multimedia

The development of multimedia management in vocational colleges in China has gone through several stages and is now moving towards a more intelligent and efficient direction.

In the early days, the academic management of vocational colleges mainly relied on manual operation, which was inefficient and prone to errors. With the popularization of computer technology, vocational colleges have begun to introduce computer-aided academic management systems, achieving partial automation management and improving work efficiency. However, these systems often only simulate manual operations and lack intelligent and personalized functions.

In recent years, with the continuous development and application of multimedia technology, multimedia systems for educational administration in vocational colleges have gradually emerged. These systems utilize multimedia technology to integrate various forms of information such as text, images, sound, and video, providing a more intuitive and vivid way of displaying information for academic management. At the same time, multimedia systems can also achieve more intelligent management, such as automated course



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scheduling, intelligent exam management, student information management, and other functions, greatly improving the efficiency and quality of academic management.

In the future, with the continuous development of technologies such as artificial intelligence and big data, multimedia systems for educational administration in vocational colleges will become more intelligent and personalized. The system can provide students with more personalized learning plans and management services based on their learning situation, interests, and other factors. At the same time, the system can also utilize big data technology to deeply mine and analyze educational data, providing more scientific decision-making support for teaching management (He Ting, 2017).

The Development of Multimedia Applications

In recent years, the development of multimedia of educational administration management in higher vocational colleges has made great progress and improvement. With the continuous development and application of information technology, multimedia of educational administration in higher vocational colleges has gradually become an important part of educational administration.

Firstly, the scope of multimedia applications in educational administration in vocational colleges is gradually expanding. The traditional academic management work mainly includes student course selection, exam arrangement, and score management. However, nowadays, multimedia in vocational college academic management has involved various aspects such as course management, teaching resource management, and course evaluation. Through multimedia technology, academic administrators can more conveniently manage student course selection and scheduling, and can provide rich teaching resources to students and teachers in the form of multimedia, improving teaching quality.

Secondly, the technological means of multimedia management in higher vocational colleges are constantly innovating. Nowadays, multimedia for educational administration in vocational colleges is no longer limited to simple application forms such as email and web pages, but gradually introduces more advanced technological means, such as online teaching platforms, teaching videos, intelligent educational administration systems, etc. These new technological means make academic management more efficient and convenient, while also providing more interaction and interaction methods, allowing students and teachers to better participate in academic management.

Once again, the data management capabilities of multimedia in educational administration in vocational colleges continue to improve. With the rapid development of



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information technology, multimedia for educational administration in vocational colleges has been able to better process and manage a large amount of data. Through data analysis and mining, academic administrators can better understand the learning situation and teaching effectiveness of students, thereby providing targeted teaching guidance and improvement measures. Meanwhile, data management can also help academic administrators better plan teaching resources and course arrangements (He Ting, 2017).

Conclusion

In recent years, with the rapid development of computer network, the demand for network education is increasing. As one of the most potential teaching methods in the 21st century, multimedia teaching has the advantages of abundant resources, huge amount of information, strong interactivity and so on. At the same time, there are many defects, in order to solve this problem, we can from the hardware construction, courseware production, student feedback, as well as environmental management and maintenance and other aspects to improve. With the continuous emergence of various new multimedia technologies, it will play a greater role in the future education. The development of multimedia of educational administration management in higher vocational colleges is a process of continuous progress, which will be more intelligent and efficient in the future, and provide better services for teaching management. Nowadays, the development of multimedia in the educational management of higher vocational colleges in our country has made great progress in the aspects of technical means, application scope and data management ability. In the future, with the continuous development of information technology and the increasing importance of educational administration, multimedia in educational administration of higher vocational colleges will continue to develop, providing more convenience and support for education and teaching.

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