Research on the Development Strategy of Physical Education Teaching in Universities Based on the Integration of Digital Media

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Abstract: This paper aims to study and explore the development strategy of physical education teaching in universities based on the integration of digital media. With the rapid development of digital media technology, its application in physical education teaching in universities has become a trend. By analyzing the problems of digital media in physical education teaching in universities, strategies such as improving teacher technical abilities, strengthening resource construction and sharing, and balancing the relationship between digital media and practice are proposed. The research results indicate that the integration of digital media into physical education teaching in universities has great potential, but it also needs to address the issues of insufficient technical skills and resources of teachers, as well as the balance between practice and theory. This study provides useful reference and inspiration for the application and development of digital media in physical education teaching in universities.

Keywords: digital media, physical education teaching, teacher training, teaching resources, curriculum design

1. Introduction

With the continuous development of information technology, the application of digital media in the field of education is becoming increasingly widespread. College physical education teaching is an important component of the comprehensive development of college students. How to use digital media to optimize the teaching mode of college physical education and improve teaching effectiveness has become an important issue in the current reform and development of college physical education teaching[1].

This paper aims to study the strategies for integrating digital media into college physical education teaching, explore the current application status and influencing factors of digital media in college physical education teaching, analyze practical cases of integrating digital media into college physical education teaching, and evaluate the effectiveness of this model. Meanwhile, this article will propose corresponding solutions to the problems faced by digital media in physical education teaching in universities.

This study is of great significance. On the one hand, exploring the strategies of integrating digital media into physical education teaching in universities can provide new ideas and methods for the reform of physical education teaching in universities; On the other hand, in-depth analysis of the application of digital media in physical education teaching in universities can provide reference and inspiration for the application of digital media in other educational fields.

2. The application of digital media in physical education teaching in universities

2.1 Concept and characteristics of digital media in physical education teaching

With the rapid development of information technology, digital media has been widely used in the field of education. In physical education teaching, digital media refers to the use of computers, the Internet, multimedia and other technical means to integrate digital teaching resources and tools into the teaching process to provide more rich and diverse teaching content and learning experience [2]. Digital media has its own unique characteristics in physical education teaching.
Firstly, digital media can provide rich and diverse teaching resources, including multimedia materials such as images, audio, and video, allowing students to intuitively experience the skills and rules of sports. As a new type of teaching method, digital media has the greatest advantage of providing rich and diverse teaching resources. Through digital media technology, students can intuitively experience the skills and rules of sports. Digital media includes multimedia materials such as images, audio, and video, which can effectively present various aspects of sports, such as technical movements, competition rules, and so on. With the help of digital media, students can not only better understand the course content, but also delve deeper into the projects they are interested in. In addition, digital media can also use the feedback mechanism of digital media to timely understand students' learning situation, thereby better guiding their learning. Therefore, the application of digital media in physical education teaching in universities can not only improve the learning effectiveness of students, but also enhance their interest and participation, and promote the innovation and development of physical education teaching in universities.

Secondly, digital media, as an advanced teaching tool, has the characteristic of strong interactivity, which is particularly important in physical education teaching in universities. Through interactive software and virtual experiments, students can actively participate in physical education teaching, improving their enthusiasm and initiative in learning. Interactive software can provide students with a rich and diverse learning experience. By interacting with the software, students can personally experience various sports skills and movements, and improve their practical operational abilities through simulation training. For example, when learning basketball, students can use interactive software to simulate exercises such as shooting and dribbling, in order to better understand and master technical essentials. This interactive learning method not only increases the fun of learning, but also stimulates students' interest in learning and improves their learning enthusiasm. In addition, virtual experiments are also one of the important applications of digital media in physical education teaching in universities. Through virtual experiments, students can engage in practical operations in simulated environments, experiencing real sports scenes and practical challenges. For example, students can simulate football matches through virtual experiments, learn about game rules, tactical arrangements, and other knowledge, and operate in virtual scenes to improve their game skills. This interactive virtual experiment can not only increase student engagement, but also stimulate their thinking and innovation abilities.

In addition, the application of digital media in physical education teaching in universities is not only reflected in its strong interactivity, but more importantly, it can provide a personalized learning environment. Based on the different needs and levels of students, carry out differentiated teaching design to help each student better understand and master sports knowledge. Personalized learning environments, supported by digital media technology, can tailor learning content and methods for students. For physical education teaching, students have different physical fitness, technical level, and interests, so personalized teaching design is particularly important. Through digital media, teachers can provide students with corresponding learning resources and tasks based on their actual situation, enabling each student to learn at a pace and style that suits them. Digital media can also utilize learning data for personalized analysis, providing teachers with feedback on student learning situations. By analyzing students' learning performance and feedback data, teachers can better understand their learning needs and problems, adjust teaching strategies in a timely manner, and provide targeted guidance and support for students. This personalized attention and guidance can help stimulate students' motivation to learn and promote their better understanding and mastery of sports knowledge.

2.2 Application status of digital media in physical education teaching in universities

At present, digital media has been widely used in physical education teaching in universities. In terms of classroom teaching, teachers can use multimedia projectors, electronic whiteboards and other devices to display sports skills, tactical analysis, and game videos, enabling students to understand and learn more intuitively. In addition, through online video platforms and online learning platforms, students can also engage in remote observation and communication, broaden their horizons, and enhance their learning effectiveness. In addition, digital media also plays an important role in practical teaching. Digital practical teaching tools such as virtual laboratories and simulation training systems can provide a safe and efficient learning environment, enabling students to engage in practical sports operations and training in simulated scenarios.
2.3 Analysis of the impact of digital media on physical education teaching in universities

The application of digital media has had a positive impact on physical education teaching in universities. Firstly, digital media can stimulate students' interest in learning, enhance their initiative and self-awareness in learning. Through multimedia teaching and interactive software, students can participate in classroom teaching, actively think and explore, cultivate innovative spirit and practical ability. Secondly, the application of digital media can broaden the scope and content of teaching resources. Through online resources and multimedia textbooks, students can have access to richer and more comprehensive sports knowledge, understand the sports culture of different countries and regions, and enhance cross-cultural communication and understanding. In addition, digital media can also provide a personalized learning environment, with differentiated teaching designs based on the different needs and levels of students, helping each student better understand and master sports knowledge.

3. Strategies and practices of integrating digital media into physical education teaching in universities

3.1 Strategy design for integrating digital media into physical education teaching in universities

The application of digital media in physical education teaching in universities requires a certain strategic design to ensure the maximization of teaching effectiveness. Firstly, establish a comprehensive library of digital media teaching resources. Teachers can establish a rich and diverse library of digital media teaching resources by collecting, organizing, and creating multimedia teaching resources. These resources can include sports images, videos, audio, animations, as well as virtual laboratories and simulation training systems related to sports. Teachers can select and utilize these resources in a targeted manner based on the course content and student needs.

Secondly, combining interactive teaching tools and platforms for teaching. Interactive teaching tools and platforms can increase student engagement and learning motivation. For example, teachers can use electronic whiteboards, projectors, and other devices to display teaching content, and promote student thinking and communication through participation in discussions, interactive answering, and other methods. Meanwhile, online learning platforms and social media can be used for interactive communication and resource sharing among students.

In addition, personalized teaching is one of the important strategies for integrating digital media into physical education teaching in universities. Digital media can provide personalized learning environments and resources based on the different needs and levels of students. For example, teachers can design learning tasks with different levels of difficulty and styles based on students' interests, hobbies, and learning abilities to meet their personalized learning needs.

3.2 Practical case analysis of integrating digital media into physical education teaching in universities

There have been some successful practical cases of digital media in physical education teaching in universities. Firstly, utilize virtual laboratories for sports training. Through virtual laboratories, students can engage in practical operations and training in simulated sports environments, such as shooting and long jump. Virtual laboratories can provide safe and efficient training scenarios, help students master sports skills and rules, and improve training effectiveness. Secondly, utilizing multimedia teaching resources for tactical analysis and watching game videos. Teachers can use multimedia projectors, electronic whiteboards, and other devices to display videos and tactical analysis of sports matches, in order to help students understand and learn more intuitively. Students can learn the skills and tactical ideas of excellent athletes by observing competition videos, and improve their competitive level. In addition, using online learning platforms for remote observation and communication is also a common practice. Students can watch live sports competitions worldwide through online learning platforms, and learn about sports and forms of expression in different cultural backgrounds. At the same time, students can also share their views and experiences through online discussions and exchanges, promoting cross-cultural communication and understanding.
3.3 Evaluation of the effectiveness of integrating digital media into physical education teaching in universities

The evaluation of the application effect of digital media in physical education teaching in universities can be conducted from multiple perspectives. Firstly, students' academic performance and level of knowledge mastery. By conducting statistical analysis of student exam scores and knowledge test results, it is possible to assess whether digital media has a positive impact on student learning in teaching. Secondly, students' interest and participation in learning. By conducting surveys and collecting feedback from students, we can understand their attitudes and experiences towards digital media teaching, and evaluate the effectiveness of digital media in enhancing student interest and participation in learning. Thirdly, teacher satisfaction and teaching effectiveness are also important evaluation indicators. The effectiveness of digital media in improving teaching effectiveness and quality can be evaluated through teacher observation records, teaching logs, and other methods.

4. The problems and countermeasures of integrating digital media into physical education teaching in universities

4.1 Analysis of the problems faced by integrating digital media into physical education teaching in universities

The application of digital media in physical education teaching in universities has great potential, but it also faces some problems that need to be solved. Firstly, the insufficient technical ability of teachers is a common problem. Due to the rapid development of digital media technology, many teachers lack sufficient technical knowledge and application abilities to fully utilize digital media for teaching [3]. Therefore, enhancing the digital media technology capabilities of teachers has become an urgent problem to be solved. Secondly, the insufficient quality and quantity of digital media teaching resources is also a challenge. At present, although there are some digital media teaching resource libraries available for teachers to use, the quality and applicability of these resources vary and cannot meet diverse teaching needs. In addition, updating and maintaining digital media teaching resources also requires a significant amount of time and effort. In addition, digital media teaching may lead to students overly relying on technology and information, while neglecting the practice and practice of actual sports. If digital media is too prominent in teaching, it may weaken the cultivation of students' sports skills and physical fitness. Therefore, how to balance the relationship between digital media teaching and actual sports training has become an important issue.

4.2 Strategies for integrating digital media into physical education teaching in universities

The key to solving the problems faced by integrating digital media into physical education teaching in universities is to enhance the digital media technology capabilities of teachers. Universities can provide teachers with the necessary digital media technology knowledge and operational skills through relevant training and training. At the same time, establish a dedicated digital media teaching team to provide technical support and guidance to teachers, and promote their ability improvement. In addition, strengthen the construction and sharing of digital media teaching resources. Universities can invest more resources to improve the quality and quantity of digital media teaching resources, and establish a sound resource sharing mechanism. At the same time, encourage teachers to actively participate in the production and sharing of resources, and jointly promote the enrichment and updating of digital media teaching resources. In this process, it is necessary to balance the relationship between digital media teaching and actual physical training. Teachers can arrange course content reasonably and combine digital media teaching with practical sports training, so that students can not only gain theoretical knowledge and skill guidance in the digital media environment, but also engage in practical sports practice and training. In addition, guiding students to use digital media resources correctly is also one of the important strategies. Teachers can cultivate students' correct understanding and ability to use digital media by guiding them to engage in self-directed learning, critical thinking, and problem-solving. At the same time, encourage students to actively participate in practical sports and emphasize the importance of practice and experience.

In summary, the integration of digital media into physical education teaching in universities needs to address the issues of insufficient teacher technical abilities, insufficient teaching resources, and...
balancing digital media with actual physical training. By enhancing the technical capabilities of teachers, strengthening resource construction and sharing, and balancing the relationship between digital media and practice, the application and development of digital media in physical education teaching in universities can be effectively promoted.

5. Conclusion

This paper mainly studies the development strategy of physical education teaching in universities based on the integration of digital media. By analyzing the current situation and existing problems of the application of digital media in physical education teaching in universities, this paper explores strategies such as improving teacher technical capabilities, strengthening resource construction and sharing, and balancing the relationship between digital media and practice, aiming to promote the better role of digital media in physical education teaching. Firstly, this article points out the problems of insufficient teacher technical abilities, insufficient digital media teaching resources, and balancing digital media with actual physical training. Then, this article proposes corresponding countermeasures, including improving the technical ability of teachers, strengthening the construction and sharing of digital media teaching resources, balancing the relationship between digital media and practice, and guiding students to use digital media resources correctly. These measures can effectively solve the problems faced by digital media in physical education teaching in universities, and promote the better application of digital media in physical education teaching. The research results of this article indicate that digital media has great potential in physical education teaching in universities, but there are also some challenges and problems that need to be addressed in terms of teacher technical ability, resource construction and sharing, and the relationship between digital media and practice. The countermeasures proposed in this article can provide useful inspiration and reference for the application and development of digital media in physical education teaching in universities. Meanwhile, this study also provides some references and ideas for the development of digital media integrated teaching in other fields.

In short, integrating digital media into physical education teaching in universities is an important development direction. Only by enhancing the technical capabilities of teachers, strengthening resource construction and sharing, and balancing the relationship between digital media and practice, can we better utilize digital media to promote the development of physical education teaching in universities. I hope that the research results of this article can provide some reference and inspiration for research and practice in related fields.

References