Discussion on the Application of Network Video Streaming Media in College Badminton Teaching

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Abstract: In the era of rapid development of scientific and technological means, the application of network video streaming media in college badminton teaching is a major development trend of college physical education. In this paper, the author takes network video streaming media as the starting point, deeply analyzes the concept of network video streaming media, explores the advantages of network video streaming media in badminton teaching, and accurately finds the fundamental principles that network video streaming media need to pay attention to in badminton teaching.

1. Introduction

With the rapid development of information technology as the background of the current era, the application of multimedia technology to promote teaching has long been the mainstream development trend of today's education. The active application of modern teaching methods has brought certain convenience to quality education, and also improved the efficiency of college physical education. Badminton teaching is a course that tests students' technical ability in college physical education. If teachers want to successfully complete the badminton teaching task, the primary task is to stimulate students' enthusiasm and executive initiative in learning badminton. The application of network video streaming media for badminton teaching is a breakthrough and innovation in traditional physical education teaching, which can not only accelerate the efficiency of badminton teaching, but also improve the quality of badminton teaching [1].

2. Introduction to Network Video Streaming

2.1. The basic concept of network video streaming

The so-called network video streaming media actually refers to playing video media files by means of streaming on the internet. The video media files here contain audio, video and multimedia files. The playback of video media files is all beneficial to streaming. Without streaming technology, it is difficult to achieve normal playback of video media files. Generally speaking, in the process of streaming, it is necessary to highly compress continuous images and sounds, and play these compressed files on the web server to satisfy the purpose of downloading and watching while the user needs to be involved. Data acquisition technology, video decoding technology, audio decoding technology, file storage technology, file transfer technology, file synchronization technology and file playback and other technologies [2]. For multimedia files, streaming while playing and downloading not only improves transmission efficiency, but also enables on-demand, live broadcast, broadcast, and multicast by leveraging the power of broadband.

2.2. Basic characteristics of network video streaming media

What is provided by network video streaming media is a relatively new type of data learning resource suitable for various network transmissions. Network video streaming media has certain interactive properties, but also features integrity and media. The widespread use of network video streaming technology not only breaks the time limit, but also breaks through the space constraints, and truly realizes the purpose of lectures anytime, anywhere [3]. The application of online video

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streaming media can further mobilize students' interest in learning, and thus fully demonstrate the individualized characteristics of students and the multiple learning advantages between students and students. The interactivity and real features of network video streaming media are mainly reflected in the fact that learners rely on VOD technology to find teaching courseware on the Internet and learn according to their actual learning conditions, which effectively improves learning efficiency to a certain extent [4]. In addition, under the promotion of streaming media technology, network multimedia can combine the various types of files such as FLA, HTML and ASF, and finally realize the purpose of enriching the fun of the classroom and make the classroom more dynamic.

3. Characteristics of Network Video based on Streaming Media Technology in Badminton Teaching

3.1. The openness of the teaching model

In the process of college badminton teaching, the active application of streaming media technology can revisit the scenes of the theoretical knowledge of teachers in the traditional badminton classroom to the learners. After the integration of streaming media, the streaming media courseware can re-explain every important theoretical knowledge of badminton that the teacher has talked about, and can integrate the related video materials to establish a network teaching system. The search area, after applying the high-efficiency compression coding technology, can not only improve the quality of network video transmission, but also break the constraints of learners in terms of time and space. Learners can learn badminton knowledge based on their own time and situation, and choose a place with a computer and Internet access.

3.2. Personalization of learning characteristics

When learners use the Internet to learn tennis, the most prominent feature is the diversity of learning resources. Rich learning resources often make it harder for students to learn. With the help of streaming video resources, learners have absolute control rights. They can fully refer to their own knowledge of badminton knowledge, scientifically and rationally formulate badminton independent learning plans, and select appropriate learning content until learners can Successfully completed the learning task of badminton.

3.3. The richness of teaching resources

The network contains a large number of badminton video image resources. The quality of these video teaching resources is directly related to the teaching effect of college badminton. Courseware on-demand has long been a major form of streaming badminton teaching, which can maximize the content of interest to learners, so that learners can accurately select learning content according to interest classification. Learners' choice rights are getting bigger and bigger, and they can use their spare time to study.

4. Advantages of Network Video Streaming Media in College Badminton Teaching

4.1. Mobilize student interest and enhance learning motivation

Interest is the best teacher. This view is also very useful in college badminton teaching. Generally speaking, students will only fully understand the content they are interested in during the daily study of badminton. The interest in learning will give students more motivation and encourage students to discover the problems in badminton learning. In college badminton teaching, the vast majority of students' learning reasons are achievements. In order to allow badminton scores to reach certain standards before they learn, they do not have enough desire for badminton learning. In college badminton teaching, actively integrating online video streaming media technology can fundamentally stimulate students' interest in badminton learning. The network video streaming media is well illustrated, which can convey all the knowledge points to students more intuitively and vividly, thus attracting students to learn. In addition to the video of daily teaching, teachers

should only follow the trend of development at any time, upload the latest event information and badminton classic learning skills to the learning website, and strive to win the favor of students with video, and learn for badminton in the future. Lay a firm foundational force.

4.2. Create correct action concepts and improve student learning efficiency

The main way of traditional badminton teaching is to explain the knowledge by the teacher, demonstrate the badminton action, and finally encourage and guide the students to carry out imitation training. This traditional badminton teaching method has certain teaching advantages, but it has a certain negative impact on the learning of badminton in today's era. There are many shortcomings. The traditional badminton teaching method is too pattern, which leads students to passively accept knowledge and can not truly play their own badminton learning potential, which leads to the decline of the efficiency and quality of college badminton classroom teaching. Network video streaming media has the performance characteristics of images, texts, sounds and images, which is very beneficial to students' grasp of difficult movements. Through the use of the campus network teaching platform, badminton teaching teachers can transfer the theoretical knowledge of badminton to students by means of on-demand, and also vividly display the various actions of badminton, and slow down some high-complexity movements. The lens is close-up so that the students can clearly see the essentials of the badminton. On the basis of online video streaming media, teachers have the opportunity to directly demonstrate the movements and knowledge of the students, so that students can deeply grasp the knowledge of badminton in the brain, and they can learn what they have learned when playing badminton in the future. Skills are applied to it.

4.3. Promote the integration of teaching under the classroom

At present, the main form of college badminton teaching is in-class teaching. Few teachers will guide students in badminton learning under the classroom. Generally speaking, the hours of most college badminton electives are around 36 hours. Due to the limitations of the school, there are various physical tests and badminton tests in these 36 hours. Some schools also hold sports games. In fact, there are very few time left for students to learn badminton. In order to keep up with the school's progress on badminton teaching, most badminton teachers will use the classroom time to catch up with the progress, without creating extremely rich badminton training time for students. Network video streaming media teaching can arbitrarily break the time and space constraints of badminton learning under the traditional teaching mode. Both teachers and students can freely choose time to choose learning content. It is worth noting that the network video teaching resources can be copied again, and can also be played back in an unlimited number of times. This can be said to be very beneficial for explaining some difficult problems. Fully motivate students to learn the enthusiasm and initiative of badminton. After deepening students' understanding of badminton technology, they can also achieve the fundamental goal of comprehensively optimizing the teaching effect of college badminton. Compared with the traditional badminton teaching mode, the badminton teaching under the network video streaming technology is more easily accepted and loved by students.

5. Aspects of Network Video Streaming Application in Badminton Teaching

5.1. Application of badminton technical action short video on WeChat platform

The capacity of the video file on the WeChat platform is very limited, and the video can be accelerated by a single technical video or several technical actions. For example, when placing a small ball in front of the net, the order of the force of the fingers and the wrist, the posture when playing on the court, and the movement of the foot after the field ball are various techniques. The short video on the WeChat platform is mainly used to learn badminton action techniques.

5.2. Using an Internet browser to retrieve long-term videos

The teacher stores the badminton teaching videos on the network video server. The stored websites mainly include large formal video websites such as Youku, Tencent, Potato and Iqiyi.

When students want to learn, they can open the website and retrieve relevant videos themselves. Under this teaching mode, teachers can reasonably apply their own professional abilities, and all technical movements and professional skills are presented with the power of video and Internet, and finally achieve the purpose of helping students learn badminton well.

5.3. Establish a professional badminton video learning website

Create a professional badminton video learning website, which can push the badminton teaching results to the most ideal state through the role of online video streaming media. The establishment process of the professional badminton learning website is actually challenging, leaving a relatively arduous task for badminton teachers and people learning badminton. This task is to build a badminton education website. Teachers and students need to communicate and communicate in a timely manner, integrate all available resources, and put them on the video learning website to fully optimize the web form of the website so as to maximize the learning of learners.

6. Application Principles of Network Video Streaming in Badminton Teaching

6.1. Follow the principle of complementarity

In the college badminton teaching, the network video streaming media is actively adopted, and the relevant teachers are required to fully understand the differences and necessary connections between the network video streaming media and the traditional badminton teaching, and the relationship between the two is taken as the core entry point. Applying network video streaming media to modern badminton teaching does not mean that teachers should completely abandon the traditional badminton teaching methods. In fact, badminton teachers have to do the same to retain the advantages of traditional teaching, plus the use of online video streaming media innovation. Where to improve the teaching of badminton.

6.2. Follow the principles of exercise training and law

Network video streaming media can intuitively present the badminton learning essentials in front of students. Although this shortens the student's learning time to a certain extent, it will seriously ignore the cultivation of students' practical ability. Through physical exercises, the memory of muscles can be effectively formed. This training law is especially important for students' badminton learning. It is a law that badminton teachers and students cannot ignore. In fact, the transmission of information can only achieve materialized effects after the body continues to train. This principle is of great value in badminton learning.

6.3. Respect the principles of scientific research innovation and mutual learning

Applying network video streaming technology to badminton teaching, in fact, this whole process is also a process for badminton teachers to improve their own badminton teaching ability, and it is also a necessary way to turn from practice to academic research. As a badminton teaching professional, there will naturally be extraordinary badminton skills, but in terms of network construction, sports majors will be far less skilled than science and engineering students. Therefore, in the application of network video streaming technology, it is necessary to find computer professionals or information technology professionals to help. Under this circumstance, a cultural exchange has also been formed, which shows the characteristics of the interactive relationship in learning. Badminton teaching teachers need to firmly remember this principle and strive to turn the badminton teaching process into scientific research results, so that students and themselves can benefit more.

7. Conclusion

In summary, after the arrival of the information age, college physical education teaching needs to be comprehensively reformed and optimized. In badminton teaching, being good at applying online video streaming media is actually a major innovation in efficient physical education reform and a

new opportunity. As a physical education teaching staff, physical education teachers need to recognize the value of this opportunity from the bottom of their hearts, vigorously publicize and further optimize the innovation of the new teaching mode, and provide practical and convenient convenience for those who learn badminton. It is undeniable that the badminton course teaching under the network video streaming media seems to be more effective in stimulating students' interest and potential. It can be said that there is no harm to the students' badminton learning.

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