Analysis of Integration Model of Sports Teaching Information Resources under Digital Information Platform

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Abstract: In the digital age, people are more and more widely used in the field of digital technology. Because digital information has the advantages of high efficiency and convenience, its application value in the integration and optimization of sports teaching resources is more and more prominent. However, at the present stage, the utilization rate of P. E. teaching resources in China is low, and there are many unfavorable factors, which hinder the rational allocation of P. E. teaching information resources. Based on this, this paper first analyzed the current situation of the construction of physical education teaching information resources, then analyzed the feasibility of the construction of digital information platform and resource integration, and finally based on the digital platform, constructed a resource integration model. Through preliminary preparation and specific network construction, it is hoped to provide some reference for the integration of sports information resources in Colleges and universities.

1. Research Background

1.1 Literature review

Under the background of digital age, Internet technology provides great convenience for people's life, travel and consumption. The information resources of physical education teaching involve many aspects of information such as curriculum, knowledge system and talent system. The traditional physical education teaching mode is impacted by the Internet because of the lack of sufficient content. How to optimize the information resources of physical education with the help of the Internet platform and integrate them has become the focus of current academic research. Some scholars have pointed out that the unification of school physical education teaching and curriculum research and development department and the integration of effective resources can effectively promote the development of physical education (Xiao H, 2010). Generally speaking, the development of science and technology not only promotes the development of digital information platform, but also promotes the effective process of sports (Xu X.B, 2011). Some scholars pointed out that physical education teaching should follow the laws of sports knowledge, logic and systemateness (Guo H. Q, 2016). In other words, the scientific nature of physical education teaching must keep pace with the times. The most important method is to pass on the long-term accumulated spirit of physical culture to students (Li X., et al, 2005). Then, the construction of the Internet information platform is conducive to the inheritance of this dissemination, but also conducive to the integration of information resources. Some scholars have found that with the rapid development of multimedia network technology, network teaching platform in Colleges and universities has rich curriculum resources, and has become a new channel for teachers and students to learn and communicate (An J, 2015). Compared with traditional teaching, network teaching has more advantages such as flexibility and information sharing. At present, in the process of physical education teaching in Colleges and universities, there are still difficulties in information exchange, and sports resources are not fully applied to the medium-sized problems in teaching classes (Shang Z.J, 2015). In view of this, many scholars have proposed targeted solutions, mainly from the teaching program, resource integration, information collection, content screening and other aspects. The proposition of these programs will help to enrich the integration of sports information resources, and then enhance the effectiveness of College Physical Education curriculum.

1.2 Purposes of research

In the information age, people's life, production and management are inseparable from information technology. At this time, information resources have become an important factor in social production. With the continuous upgrading of Internet technology, the dissemination of information in traditional paper media has been transformed into a combination of multimedia, software technology and satellite technology. Nowadays, network information includes audio-visual, image, periodical, document, database and other forms of continuous optimization and development. Compared with traditional ways of information dissemination, network dissemination has greater advantages, such as interactive communication, large storage capacity, high-speed dissemination and so on. Under such conditions, information resources appear in the network dissemination of information resources, which can be disseminated through network computing. Compared with the existing sports, sports teaching information resources are less, mainly distributed in the literature database, or scattered in various news websites, video resources, as well as micro-blog, Wechat and other network interactive platforms. These digital information resources are widely distributed, so the teaching courses in Colleges and universities can not be summarized into the system in time. Therefore, only by digitalizing sports information resources and establishing information resources database, can we share them through relevant networks.

2. Current Situation of Information Resources Construction in Physical Education Teaching

2.1 The utilization level of sports teaching information resources is lower

The Internet has abundant sports teaching resources in the form of pictures, videos, audio and so on. The contents involved include many fields of sports. However, at the present stage, the utilization level of sports teaching information resources in China is low, and it is difficult to introduce diversified sports information into sports teaching classes, resulting in the ultimate teaching quality can not be effectively improved. At all stages of physical education teaching in Colleges and universities, teachers do not pay enough attention to the teaching methods of physical education, making the rich Internet resources can not be used among students, and the information resources with sports value are not widely used in the student groups. Under the network information technology, the university physical education teaching information resources are still in the state of renewal (Li Y.Z, 2016). In view of the incomplete mechanism of introducing information into physical education teaching in Colleges and universities, the feedback mechanism of relevant opinions can not be taken seriously. Relatively speaking, part of the old sports information resources which are deviated from the development of the times are also applied to the current classroom activities. Therefore, advanced information resources are seldom used in College Physical Education teaching, which ultimately leads to the ineffectiveness of physical education teaching.

2.2 Lack of effective management of physical education teaching information resources

As the Internet is full of a large number of information resources, sports teaching information resources also need to be further optimized and managed. In college physical education information teaching, a sound information system is needed to manage and utilize the information resources of Internet physical education teaching. However, from the current development situation, at this stage, the construction of P. E. teaching information resources platform in China's universities is not perfect, and the introduction, utilization and management of resources need to be further optimized. At the same time, the imperfection of information resources management system will lead to a series of problems in all aspects of sports resources (Shi Y, 2015). For example, the utilization rate of resources is low, and there are great differences between the physical education teaching information resources and the actual teaching effect. In this case, the integration of physical education teaching resources in Colleges and universities will also have tremendous difficulties. In addition, the management of P. E. teaching information resources needs a team, but the management of P. E. teaching information resources in Chinese universities lacks enough professional personnel.
This leads to the confusion of the management of physical education teaching information resources, which hinders the progress of the integration of physical education teaching information resources.

2.3 Lack of systematic talent training plan

The integration of sports teaching information resources needs a large number of professional talents, which mainly include the training and guidance programs for sports talents. The types of talents mainly include technology, data collection, resource integration, and professional guidance. But up to now, the integration of physical education teaching information resources in China is still in the initial stage of development, mainly in the following aspects. First of all, people have a narrow understanding of the integration of physical education teaching information resources, which leads to insufficient training of relevant talents, and the lack of talents in specific applications is more prominent. Secondly, when some media resources disseminate sports teaching information resources, they seldom take into account the specific needs of schools and students, which leads to many professionals have a narrow understanding of the integration of sports teaching information resources. Finally, the relevant system is not perfect, especially the training of talents for the integration of physical education teaching information resources. It can be seen from this that, due to the lack of adequate and systematic personnel training plan, the integration of physical education teaching information resources in Colleges and universities has always been at a low level of development.

3. Feasibility of Digital Information Platform Construction and Resource Integration

3.1 Systematic literature resources play a role in promoting and ensuring

The integration of physical education teaching information resources in Colleges and universities is inseparable from a large number of physical education information resources. At the same time, the construction of digital information platform also needs the help of abundant Internet sports teaching resources. At present, the construction of documentary information resources in Chinese libraries has developed rapidly, and the sports information resources have been expanded sufficiently. Under this advantage, the integration of college physical education teaching information resources and the construction of digital platform have a good resource base. For example, the National Agricultural Center of the Ministry of Education, the NSTL of the Ministry of Science and Technology, and the National Cultural Information Resources Sharing Project of the Ministry of Finance and the Ministry of Culture. Among them, under the guidance of the Teaching Department of the State General Administration of Sports, the sports system jointly establishes a joint bibliographic Library of books for most sports colleges and other sports units in the country, which also provides a basis for the construction of the current digital information platform and the integration of sports teaching information resources.

3.2 The continuous upgrading of internet technology has increased the resources of physical education teaching

With the continuous optimization and upgrading of Internet technology, physical education teaching resources have been constantly supplemented, so that the construction of digital information platform has a good foundation. Among them, the rapid construction of Internet of Things resources has further improved the overall physical education teaching resources. In this case, the construction of digital information platform also has technical support. With the interconnection of physical education teaching resources, many colleges and universities began to establish resource sharing alliances, and a large number of physical education teaching resources began to share, thus providing technical conditions for the construction of digital information platform. The coalition of physical education information resources sharing in Colleges and universities has gradually expanded, making the overall teaching ideas have been effectively developed. In addition, the technological channel of Internet information dissemination has developed well, so the integration of university physical education teaching information resources
The process of digitalization of information resources is gradually improved

The process of digitalization of information resources includes not only preparations, but also content screening, digitalization conversion, and sharing and improvement of related intellectual property rights. Therefore, in the process of perfecting this process, relevant application research is also a hot spot of information resource integration. Through the existing research literature, we can find that people have very positive views on the integration of sports teaching information resources and the construction of digital platform. The digitalization of physical education teaching information resources, including the selection of digitalized content, project planning and digital document preservation, are the core contents of this project. Digital preparation includes hardware and software system, digital environment, selection of file format and storage medium, etc. In the construction of the existing digital information platform and the integration of physical education teaching information resources, the continuous improvement of these items and contents, as well as the continuous maturity of technical conditions, all provide conditions for the overall physical education teaching information resources in Colleges and universities.

4. Integration Model of Physical Education Information Resources Based on Digital Information Platform

4.1 Preliminary preparations

First of all, we should establish a good coordinating body and mechanism. The integration and platform construction of physical education teaching information resources need a unified and coordinated organization. Specifically, the Physical Education Department of local colleges and universities and the student union of schools can be chosen to guide the progress of the whole work. The main work of this organization includes the following aspects: making digital planning of physical education teaching information; raising funds for resource construction; establishing systematic links with relevant information institutions and systems, and speeding up the allocation of information resources. Secondly, a comprehensive survey is conducted to simulate the specific implementation plan. Before integrating the information resources of physical education teaching, we need to investigate the information resources of various websites, libraries, electronic reading rooms, and networks, so as to formulate specific sharing schemes. Thirdly, we should vigorously develop sports teaching information resources to lay the foundation for the construction of digital information platform.

4.2 Construction and improvement of integration model

Based on the digital information platform, to build the integration model of physical education teaching information resources, mainly through the integration and development of website sites as the basic content. Through the network interconnection, the physical education teaching member units are connected, and resources are flowing and shared around the information center. The information gathering place should be an important provincial capital city, where a hub node is established, and then a transfer site is established. Since there are few transfer layers available, star structure can be used. The information exchange platform formed in this way can connect each node and realize the sharing of resources.

4.3 Contents of site construction

The content of this construction site mainly includes four aspects. First, collect dynamic information. The responsible departments of physical education teaching information resources in Colleges and universities mainly collect and classify the information resources and put them into the digital information platform. Secondly, build a query site. Sites set up here mainly include media columns, Sports League clubs, sports research or information departments. It should be noted that these site resources need to be comprehensive, real-time, easy to understand and so on. In addition, we need to pay attention to the interaction of content and link to hot websites. Third,
optimize linking sites. Fourth, real-time sharing of resources. Physical education departments in Colleges and universities can introduce real-time database, constantly improve the existing catalogue of sports books and periodicals, and constantly improve information resources through joint procurement of data content.

5. Conclusion

In the digital information age, physical education teaching in Colleges and universities is more and more inseparable from the application of information network technology. Relatively speaking, the traditional physical education teaching resources are relatively scarce, which makes the overall development motive force insufficient. At the present stage, the utilization rate of P. E. teaching resources in China is low, which leads to the inability to improve the quality of P. E. teaching in Colleges and universities. Therefore, based on the digital information platform, build an efficient integration model of sports teaching information resources, and realize the sufficient application of Internet sports resources in Colleges and universities.

References


