On physical education teaching informatization under the perspective of education informatization

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ABSTRACT

Education informatization is that computers and network technology are fully used in the field of education to achieve the education modernization. Teaching informatization is the core of education informatization. Under the perspective of education informatization, sports informatization went into people's horizons, sports teaching informatization became hotspot at the same time. The realization of the education informationization will have a series of influence on the sports informatization; more requirements are put forward for sports teaching informationization. Therefore, to achieve sports education informatization, we should explore the physical education teaching informatization implementation path from the education thought, teaching idea, teachers' informatization quality, information application skills, excavating information resources etc.

Key words: Education informatization, Sports teaching, Sports informatization
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INTRODUCTION

Currently, the research of the evaluation about network information resource is a relatively novel topic[1].same as it,education informatization is a new topic also.Education informatization is to commonly use modern information technology in education to develop education resources, to optimize the education process, in order to cultivate and improve the students' information literacy, promote the process of education modernization. The primary content of education informatization is teaching informationization. Teaching is the center of the field of education, the teaching information is to make teaching means technological, informationize the spread of education, modernize teaching methods. Education informatization requires full use of computers, multimedia and network communication in the process of education to promote the education reform. Education informationization brings profound influence and promote to the sports informationization which is the bright symbol of modernization, the control of sports information dissemination and the corresponding influence rapidly extend to the virtual space, the sports information resources and information service is particularly important. Physical education teaching informationization increasingly attract people's attention.

2 the informationization of education

On March 2012 in our country issued 'the education informatization development plan during ten years (2011-2020)'. The project identified the goal of ten years development of Chinese education informatization as: 'everyone can enjoy high quality informatization education resources learning environment, basically form a information support service system in the learning society, network coverage at all regions and all types of schools to achieve a significant improvement on education management informatization, information technology and the education fusion development.' [2]

The basic characteristics of education informatization is openness, sharing, interaction and collaboration. Education informationization regards the information as one of the basic components of education system, and widely use of

computer multimedia and network information technology in the areas of education, make it adapt to the new demand of information society for education development, promote the process of education modernization.

Education informatization has the attribute of 'technology', at the same time also has the attribute of 'education'. Look trough foreign education informatization technology attributes, the basic characteristics of education informatization is digital, networking, intelligence and multiple media. Digital makes the equipment of the education information technology system be simple, reliable and the standard be unified, networking makes information resources can be shared, less activities time and space constraints, interpersonal cooperation is easy to implement, intelligent system can manage to achieve the humanization on teaching behavior , naturalize man-machine communication, agency on multifarious task, multimedia realize that integration of letter media equipment , virtualization of diversification of information representation, complex phenomena.[3] From education attributes, the basic characteristics of the education informatization is openness, sharing, interaction and collaboration. Education informatization aims to apply the modern information technology and the education technology in the teaching process, its purpose is based on information technology driving the modernization of education, encourage the existing education and teaching step onto a higher stage. Education informatization, of course, has had a huge impact for the traditional education thought, education idea, education mode, teaching form, learning method ect.

Teaching informatization is the core of education informatization. Teaching is the center of the field of education, the teaching informatization is to make teaching means technological, informationization of the spread of education, modernization of teaching methods. Education informatization fully uses of modern information technology which is based on computers, multimedia and network communication in the process of education to promote the education reform. A teacher is one of the key factors of school's education informationization implementation process, education informatization is dependent on the active participation of teachers, which also can be seen that the teachers are the main force of promoting education informatization construction. In the information age, a teacher if you do not have good information literacy, do not have a modern information technology, it is difficult to preach, bequeath, reassure.

Because of the rapid development of information technology, the IT teaching in Middle-school even need return to life, need to strengthen the connection of the curriculum content with the student's life and the development of science, and pay more attention to the learning interests of them, to let them gain some life experience from learning and a better life in the future. [4]

RESULTS AND DISCUSSION

3 The influence of education to sports teaching informationization
Under the perspective of education informatization, when we inspect sports information, we can find that sports information also has broad space for development. Compared with other disciplines, sports information has its own advantages and characteristics, one is that people are very concerned about it, the second is that propagation velocity is fast, the third is transmission range is widespread. As we all know, sport is a part of education. Education informatization development will bring corresponding influence on the sports informatization, and can promote the process of sports information development. The traditional sports teaching idea has failed to keeping pace with the pace of social development, let alone the use of information technology. Along with the continuous development of the times, sports informatization level continuously improve, sports teaching informationization can be seen everywhere, but how to reasonably use, is still a problem need to be thought about. sports teaching informatization is also the embodiment of sports information. Anyway, education informatization development promotes the sports informationization, also leads to the rapid development of the sports information. At the same time, under the influence of education informationization, teaching information is also presented.

3.1 the transformation of sports education thought, teaching idea
Under the influence of education informatization, the sports education thought, teaching idea is changing. Modern sports teaching is focusing on the exchange of information much more between teachers and students, also students and students , instead of simple knowledge transfer. Through the increase of information exchange to improve the quality and quantity of students' knowledge. Via this kind of information transmission and exchange, to replace the previous 'dominance of teacher and student-centered theory'. Make sports teaching presents a harmonious situation and break the traditional education ideas and education concepts, the sports teaching presents a new vitality. Under the guidance of this kind of new education ideas, teaching presents a variety of communication, such as one-way communication, two-way communication, multidirectional communication and integrated communication, promotes the sports teaching reform and the achieving of the informatization implementation of sports teaching.

3.2 digital sports teaching content

Computer is the foundation of the digitalization. It has a lot of advantages ,due to high information resources integration, stable performance, unified technical standards, large storage capacity and fast processing speed, it is widely applied in physical education and the teaching of sports. Sports teaching media mostly image information, it needs large storage capacity, digital storage to provide more space for the storage and use of physical education information and provide a more convenient conditions for the wide use of physical education . Electronic textbooks, reference books, libraries and education database, etc. widely used, not only makes the education content be more rich, colorful and vivid, moreover makes the storage of knowledge, the propagation speed greatly accelerated, use efficiency has a remarkable improvement.

3.3 multimedia of the sports teaching materials and teaching methods

Multimedia of teaching materials is used in multimedia，in particular, hypermedia technology, to build the structure, dynamic, visual representation of teaching content. With increasing bandwidth of the network lines, now most online courseware almost realize the multimedia, they not only contain texts and graphics, also can present sound, animation, video and 3D simulation. Multimedia can integrate a single representation of sports information media to achieve much better integration and generality of the media equipment of physical education information. Using multimedia technology can also make the teaching information diversity, structured, dynamic, visualized, and make the complex technological motion, boring technology much funny.

3.4 the network of sports teaching information resource

In the Internet, there are a lot of education resources can be shared, the types are various, such as education website, electronic books, virtual library, software base, news groups, sports curricula and so on. The popularization and application of Internet, is changing the human's production, life style and learning style, in the information age of explosive growth of the knowledge, the popularity and use of computer technology and network technology not only reduce the cost of information processing, strengthen storage capabilities of knowledge, but also greatly increase the speed of the spread of knowledge and information, eliminate time and space limit of the collection and use of knowledge. Teachers can collect, classify, process and refine knowledge information to satisfy the needs of the teaching through the computer technology from the plenty of sports information resources in network to improve education quality and teaching efficiency. Three-dimensional transmission of sports education information can make education resources be shared, including hardware and software resources sharing, such as the large capacity of storage media, network teaching materials, network sports information and news. As so far, the core of the sports education information sharing is software, teachers and students can use the Internet, all kinds of information media, multimedia teaching resources to acquire the basic sports knowledge and related information needed in the process of the teaching and learning, supplementary the disadvantages in the teaching practice, to complete the teaching and learning of movement technology better.[5]

3.5 the intelligence of sports teaching mode

Combining with the teaching mode of education informationization , the sports teaching informatization also presents a wonderful intelligence and personalized teaching mode. To use artificial intelligence technology to build intelligent tutor system can teach and help students according to their different personality traits and requirements. In order to do this, the determination of the student individuality, especially the one-way transformation teaching mode of the cognitive mode detection will become an important research topic in the education research. Traditional sports teaching is that teachers explain and demonstrate, and then students comprehend technical behavioral essentials and practice, but the talents can not adapt to the demands of modern society. With the development of education informationization, the network learning resources rapidly expand, physical education just like other disciplines, diversified teaching mode is the inevitable trend of development of sports education. In a traditional teaching environment is difficult to carry out the research-oriented learning, discovery learning rise again. Especially the student-centered teaching mode, will be widely accepted. Teachers' teaching work will focus on assisting students' autonomous learning through making full use of network resources and all kinds of information and resources. Sports excellent online lessons provide a platform to the teachers and students' learning and discussion. Establishment of education cloud platform will expand one new study space in educational field, under the model of network study under cloud computation, people can carry out information acquisition and disposal at any time, in any place and by any manner, which can lower the cost and difficult of learning source and service by Web to create flexible and quick study manner, colorful study environment, and it can increase study effect in the end. [6]

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CONCLUSION

4 the realization path of school sports teaching informatization

Under the perspective of education informationization, teaching information is imminent, and to improve the physical education teaching informationization is the priority. Computers and network information technology are widely used in all kinds of fields nowadays, the impact of school education and the education informationization is increasing, especially having obvious effects on changing education thought and education idea, promoting the teaching reform and realizing the modernization of teaching means, etc. To achieve information and perfect physical education teaching should free education concept, update the education concept, improve teachers' informationization quality, excavate sports informationization teaching resources, accelerating the process of sports teaching informationization better.

4.1 update the education concept, improve their own consciousness of information

In the information age, the teacher wants to liberate education thoughts, update education idea, set up modern education concept. Transiting from traditional knowledge imparter to the organizer and director of the student to study, to guide, plan, organize and coordinate students to join into a variety of learning activities, pay attention to cultivate students' ability of self learning and obtain the access to information and knowledge. For the physical education teachers, do not passively accept information knowledge at the same time, they should take the initiative to improve their information consciousness and be initiative to learn and absorb new teaching methods and knowledge, especially accurately grasp knowledge of the latest system , and should actively study, put the new information, new knowledge into the physical education class, through teaching practice, not only can improve their comprehensive quality, also can enhance the effectiveness and scientific of classroom education.

4.2 improve teachers' informationization quality and information application skills

Using computer to assist teaching is an important aspect of education informatization, which requires teachers to master relevant computer knowledge and relevant operation skills, study compulsory software, cultivate their ability to design the courseware, manage to do single teaching and network teaching. Information processing skills is to transform obtained sports information into useful information for improve sports teaching effect and quality. Physical education teachers should regard information processing as the main line, to improve the skills of the use of information. On the one hand, the PE teachers use paper literature to get physical education teaching and scientific research information; Physical education teachers should also, on the other hand, through various sports information service provided by the Internet to obtain a variety of sports information, at the same time to transmit research achievements to the world through the network and realize the 'resource sharing' of information age. Sports teacher can also through the use of applied software to develop the integrative teaching materials which contain sports writing teaching material and multimedia teaching materials, master the methods of module combination structure, use the theory and method of artificial intelligence, provide to the college students with the sports information consultation and guidance. They can also through the horizontal cooperation, cooperate with experts and scholars of other disciplines to improve their information skills.

4.3 explore sports informationization teaching resources

Education information resources can be divided into education software resources which have education information carrier as the core and education management information with data based on management information system. Education software resources mainly includes multimedia education information resources which consist of multimedia material, all kinds of CAI courseware, Internet courses primarily, library information resources which consist of literature data access and retrieval service, tool recourses which consist of the formation, analysis, processing, transfer and use of education information resources, as well as the mighty Internet resources, etc.; education management information resources mainly refers to many kinds of database resources which is primarily consist of educators, education content, education object, education resources and support service system which is establishing for implementing modern management. Under the background of the above education resources, combining with the characteristics of sports, exploring the specific characteristics of sports information resources, that is to have their own characteristics of sports software resources and sports management information resources, such as own cloud computing system of digital sports with local characteristics, sports teaching, training, competition management system, truly achieve the   informatization of sports teaching and management.

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