A Study of Extension Strategies of Multimedia Online Teaching Platform in Sports Teaching of Universities

Jiaping Xu

University of Jiangsu, Zhenjiang 212013, China

Abstract

By showing the advantages of multimedia online teaching platform in university sports teaching, the paper tries to summarize and analyze how to help the multimedia online teaching platform break the traditional university sports teaching limitations, how to expand the multimedia online teaching platform into university sports teaching, how to effectively and reasonably integrate resources and information on multimedia online teaching platforms and sports websites to complement each other’s advantages and to break the time and space limitations of the traditional sports teaching by making full use of the share performance of online resources, how to make college students without a multimedia online teaching platform and sports fans learn sports knowledge on multimedia online teaching platform to realize the optimization of teaching resources, and how to provide online guide and help for more college students and sports fans through the effectiveness, interactivity, and display features of multimedia network.

Keywords: Multimedia Online Teaching Platform, Sports Teaching.

1. INTRODUCTION

With the popularization of Internet and the comprehensive development of computer information technology, campus teaching network becomes increasingly advanced, and a growing number of students begin to learn or do assignment online. Online teaching plays a prominent advantageous role in university teaching, and it is being used widely.

Multimedia online teaching not only brings knowledge and self-exploration to students but also develops students’ creativity and innovation thinking.

Therefore, the extension meanings of multimedia online platform in university sports teaching are as follows:

First, with the extension of multimedia online teaching platform in university sports teaching, sports teaching resources could be shared and different universities could complement their advantages.

Second, the extension of multimedia online teaching platform in university sports teaching breaks the traditional sports learning concept and makes college students have a new understanding of sports.

Third, the extension of multimedia online teaching platform in university sports teaching breaks the traditional geographical limitations (Cui, 2014). Therefore, sports learning can be expanded to home, community, and even somewhere with network.

Fourth, the extension of multimedia online teaching platform in university sports teaching can integrate advanced multimedia technologies (such as voice, icon, word, picture, figure, and animation) effectively and simulate the real environment (Papastergiou, 2009). In addition, teachers and students can communicate or send feedback information on multimedia online teaching platform to find, raise, and solve problems in teaching.

Fifth, the extension of multimedia online teaching platform in university sports teaching does not mean replacing the traditional sports teaching but be the powerful supplement and assistance of the traditional sports teaching. The traditional sports teaching is teacher-oriented in the forms of class and training, but students’ self-learning and personalized learning are limited by equipment, teaching materials, and teaching methods. While, multimedia
online teaching platform provides a powerful information database for college students, including the latest global sports news, detailed technical movements, and direct sports videos to give professional guidance through interaction. In addition, multimedia online teaching platform breaks the limitations of time and space, so students can learn sports knowledge during spare time. Multimedia online teaching platform complements each other with the traditional teaching method, which is the development tendency of modern sports teaching (Liu, 2012).

2. THE EXTENSION OF MULTIMEDIA SPORTS TEACHING PLATFORM IN UNIVERSITY SPORTS TEACHING

2.1 The basic structure and working principle of multimedia online teaching platform for university sports education

Multimedia online teaching platform adopts the latest B/S (browser/server) structure, and its structure is as Figure 1. The structure features are as follows: the terminal uses the standardized Web browser. All applications are saved on Web browser and they could be downloaded at any time. The structure could be managed and maintained easily because the specialized software is not necessary for the terminal. The software in the server could be updated when online applications are updated. Such structure could be expanded and opened well. The B/S structure adopts the standardized TCP/IP communication protocol, and universities could expand the system at any time according to their own development.

The working principle of the system: Teachers and students visit the multimedia online teaching platform through browser. Students use personal computer device to connect with the server through browser to learn sports knowledge, inquire sports resources and information, communicate with teachers in time, and upload personal data. The administrator of the multimedia online teaching platform and the sports teacher can update and maintain the content on the server through browser, upload the latest sports teaching resources and information to the server, answer students’ questions online, and guide students’ sports. The server includes Web server and database server. The Web server keeps application modules and helps customers realize application performance. It receives users’ request from the client terminal, interacts with the database server after transforming the request to the database request, and downloads the interactive result into the browser in the form of Web page. Users can observe the request result. The database server keeps database and management software (Wang, 2014). It operates the database according to the request of the Web server and sends the result to the Web server.

2.2 The supporting environment structure of multimedia online teaching platform for university sports education

The extension of multimedia online teaching platform in university sports teaching is based on the construction of platform environment. We propose the supporting environment structure chart of multimedia online teaching platform of university sports teaching according to the modern distance education and teaching supporting system in Modern Distance Education Resource Construction Technical Regulations, which is shown as Figure 2:
2.3 The application of modules in multimedia online teaching platform of university sports education

The sports teaching module is the core module of university sports multimedia online teaching platform. The module shows and assists the university sports teaching process. The module includes course introduction, electronic teaching materials, teaching plan, multimedia online courseware, live teaching, teaching video (including excellent course display), and course resource collection. With this module, the teacher can edit and upload teaching information and resources, and students can have a basic understanding of sports class and learn sports by themselves. In addition, the multimedia online courseware can show the highly difficult movements with the direct multimedia flash to help students have a deeper understanding and master these movements.
Besides, students can watch sports teaching video online and other universities with fewer sports teaching resources can also learn sports courses online. Finally, the teaching video can help students review after class. What Figure 3 shows is the sports teaching module by taking basketball class as the example.

3. THE STRENGTHS OF THE EXTENSION OF MULTIMEDIA ONLINE TEACHING PLATFORM IN SPORTS EDUCATION

3.1 The multimedia online teaching platform is beneficial to the direct display of sports teaching content

Sports teachers mainly teach technical movements by explanation and demonstration in the traditional university sports teaching. However, many difficult technical movements are done instantly during this process, so teaching would be limited by the traditional teaching method and students would not learn and master the main points of these difficult technical movements vividly. But multimedia online teaching technology can solve this problem. The freeze-frame and slow play of images and the application of flash can decompose these difficult technical movements, so students can have a direct understanding and master them in a short time. Similarly, some written content of sports theory teaching can also be shown through multimedia online teaching technology, which not only can vivify the boring written teaching but also can arouse students’ learning interest. In addition, microteaching could also be used in multimedia online teaching to give students teaching guidance. The teacher can record students’ technical movements in class with a video camera, upload them to the computer, and make them into the images that could be decomposed through multimedia technology and play during the learning process. Then, students can make self-evaluation and collective evaluation, which will have a good teaching feedback effect.

3.2 The multimedia online teaching platform is beneficial to the two-way communication between teachers and students in sports teaching

One of the features of multimedia online teaching is the application of instant messenger technology. Multimedia online teaching platform has the powerful performance of information and resource share. The timely communication between the teacher and students can promote sports teaching. The traditional university sport teaching is done in the unit of class; there are many students in class; communication between the teacher and students is limited. However, multimedia online teaching platform can realize the online communication and interaction between the teacher and students. Multimedia online teaching technology can realize the distant “face-to-face” communication between the teacher and students, which will promote teaching interaction, improve teaching, and raise teaching efficiency. Figure 1 compares the communication between the teacher and students in the traditional sports teaching model and the multimedia online teaching platform model.

The working principle of the system: Teachers and students visit the multimedia online teaching platform through browser. Students use personal computer device to connect with the server through browser to learn sports knowledge, inquire sports resources and information, communicate with teachers in time, and upload personal data. The administrator of the multimedia online teaching platform and the sports teacher can update and maintain the content on the server through browser, upload the latest sports teaching resources and information to the server, answer students’ questions online, and guide students’ sports. The server includes Web server and database server. The Web server keeps application modules and helps customers realize application performance. It receives users’ request from the client terminal, interacts with the database server after transforming the request to the database request, and downloads the interactive result into the browser in the form of Web page. Users can observe the request result. The database server keeps database and management software. It operates the database according to the request of the Web server and sends the result to the Web server.

<table>
<thead>
<tr>
<th>Teaching mode</th>
<th>Teachers and students relations of teaching</th>
<th>The corresponding relation of teacher and student</th>
</tr>
</thead>
<tbody>
<tr>
<td>The traditional teaching mode Based on the teaching mode of the network</td>
<td>Directly, face to face indirect</td>
<td>One teacher matched many students Many teachers to many students</td>
</tr>
</tbody>
</table>

3.3 The multimedia online teaching platform can provide a personalized learning space for students
The traditional university sport teaching mainly focuses on the teacher, classroom, and teaching materials. Limited by the number of students and the teaching time, it is difficult for university sports teaching to give personalized teaching guidance and thus students’ self-learning and personalized learning would not be realized. With the application of multimedia online teaching, students can choose between self-learning and personalized learning with the powerful teaching resource and information database, which will break the limitations of time and space in the traditional sports teaching and will realize the student-oriented personalized teaching. Students can connect their personal PC with network to land in the multimedia online teaching platform to learn relevant sports knowledge comprehensively.

3.4 The multimedia online teaching platform can share and optimize university sports teaching information and resources

Multimedia online teaching in university sports teaching brings the new reform and innovation to share and optimization of university sports teaching information resources, and provides a huge database that collects information resources from advanced universities, research institutions, and libraries. There are many kinds of sports education databases online, including sports education news, sports education statistics, and sports teaching research database. In addition, teaching content, teaching materials, teaching method, and assistant teaching method, online sports education environment construction (such as visiting and experiment), and exam online could vary from person to person and could be shared, so students can choose according to their needs.

4. CONCLUSION

Chinese multimedia online teaching is still at the starting stage in university sports teaching, and few universities have the real multimedia online teaching platform. The construction of multimedia online teaching platform is different in different regions in China. The quantity of multimedia online teaching platforms for university sports teaching in the west under-developed areas is fewer than that of middle areas and east developed areas. The education resources are in shortage in west areas, and faculty of sports teaching is weaker. However, the extension of multimedia online teaching platform will solve this problem because the resource share performance of multimedia online teaching platform can change the situation that the distribution of teaching resources is not even. Multimedia online teaching platforms increase in China every year, and they are being used in a wider range. However, the application of multimedia online teaching platform for sports teaching still has limitations, so education departments, college teaching management departments, and society should make great efforts to improve.

Multimedia online teaching platform tends to be taken as campus network. Campus network only issues campus news, displays excellent courses, download teaching resources, and manage students’ affairs, which intends to help students use relevant management and require teaching resources conveniently. This model is only a database and management system rather than a complete teaching system. Multimedia online teaching platform is a visual system and a whole application. The real multimedia online teaching platform not only can download resources, have strong multimedia teaching performance, and instant interaction and learning performance, but also can optimize and share teaching resources. But the traditional campus network has not these performances. The extension of multimedia online teaching platform in sports teaching not only can supplement the traditional sports teaching but also can improve sports teaching and provide a platform for self-learning and personalized learning.

By showing the advantages of multimedia online teaching platform in university sports teaching, the paper tries to summarize and analyse how to help the multimedia online teaching platform break the traditional university sports teaching limitations, how to expand the multimedia online teaching platform into university sports teaching, how to effectively and reasonably integrate resources and information on multimedia online teaching platforms and sports websites to complement each other’s advantages and to break the time and space limitations of the traditional sports teaching by making full use of the share performance of online resources, how to make college students without a multimedia online teaching platform and sports fans learn sports knowledge on multimedia online teaching platform to realize the optimization of teaching resources, and how to provide online guide and help for more college students and sports fans through the effectiveness, interactivity, and display features of multimedia network.

REFERENCES