Retraction

Retraction: Innovation of College Physical Education Teaching Mode Based on Computer Multimedia (J. Phys.: Conf. Ser. 1992 022066)

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This article has been retracted by IOP Publishing following an allegation that raises concerns this article may have been created, manipulated, and/or sold by a commercial entity. In addition, IOP Publishing has seen no evidence that reliable peer review was conducted on this article, despite the clear standards expected of and communicated to conference organisers.

The authors of the article have been given opportunity to present evidence that they were the original and genuine creators of the work, however at the time of publication of this notice, IOP Publishing has not received any response. IOP Publishing has analysed the article and agrees there are enough indicators to cause serious doubts over the legitimacy of the work and agree this article should be retracted. The authors are encouraged to contact IOP Publishing Limited if they have any comments on this retraction.

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Innovation of College Physical Education Teaching Mode Based on Computer Multimedia

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Abstract. With the continuous maturity and iteration of multimedia tech, computer multimedia tech has been widely used in college physical education. However, there are still many problems and deficiencies in the current utilization mode, such as teachers’ information literacy demand to be improved, resulting in their lack of multimedia utilization ability and utilization thinking. Based on this, this paper first analyzes the current situation of the expansion of college physical education teaching mode, then studies the advantages of computer multimedia tech in college physical education teaching, and finally gives the innovative design of computer multimedia university physical education teaching mode.

Keywords: College Physical Education, Teaching Mode, Computer Multimedia

1. Introduction
With the iterative expansion of modern tech represented by computer multimedia tech, it has been widely and deeply applied in many fields, and has achieved fruitful research results. In particular, the utilization in college Physical Education (PE) has greatly promoted the innovation and reform of its teaching mode, so it has become the focus and hot spot of the research on the innovation of college PE teaching mode [1]. As a new teaching aid tool which integrates computer network and audio-visual processing tech, computer multimedia can process massive information data and display data intuitively and clearly on the data interface, so as to realize the rapid processing and analysis of teaching data information. These data types include many aspects as shown in Figure 1, so they play an important function in promoting the innovation of college PE teaching mode.

As a practical course, college PE teaching activities not only demand teachers to teach students basic sports theoretical knowledge, but also demand to teach students the specific action demonstration and action decomposition essentials. Therefore, the course requires teachers to have strong sports thinking and sports literacy, so as to achieve the complete output of sports basic knowledge and skills, as well as the realization and achievement of PE teaching objectives. However, there are still many problems in the utilization of multimedia tech in the teaching of physical education.

In addition, with the iterative progress of computer multimedia information tech, the utilization of its latest achievements in college PE teaching classroom will help students feel a new teaching mode with vivid process, intuitive experience and rich content, so as to greatly enhance students' learning initiative and enthusiasm [2]. In addition, the college PE teaching mode based on computer...
multimedia helps to promote the students’ dominant position, help them obtain more information, and realize the great improvement of their sports literacy. It can be seen that the utilization of computer multimedia tech in college physical education has brought a strong impact on the traditional teaching mode, concept and method, enriching the content and connotation of the course, and continuously improving students' Sports literacy with better experience and interaction. Therefore, it is of great practical value to study the innovation of college PE teaching mode based on computer multimedia.

Figure 1. Data types of computer multimedia tech.

2. The current situation of college PE teaching mode

2.1. Current situation of college PE teaching mode
The expansion of college PE teaching activities can promote students to develop a tough character and good quality, and help students shape a complete personality. At that time, the current university teaching energy is still mainly focused on other professional courses, which leads to the weakness of both the proportion of class hours and the level of resource investment. This reflects that the current university is still not paying enough attention to physical education, which seriously limits the innovation and expansion of PE teaching mode. In addition, most universities lack the main line of teaching, which leads to the lack of clear and reasonable expansion goals. In this context, not only students lack the interest and enthusiasm to actively participate in sports activities, but also teachers lack the determination and motivation to innovate PE teaching mode.

2.2. Problems in college PE teaching mode
At present, the teaching form or the content of the examination still focus on the technical points, and still focus on the examination oriented education mode, which makes the students' comprehensive quality difficult to improve [3]. In this exam oriented education mode, students do not have organic connection between the three elements shown in Figure 2, which leads to the lack of students’ thin participation in sports, which seriously reduces the effect of college PE. In addition, the content of PE teaching programs offered by universities is not rich enough to satisfy the individual demands of students. In addition, the teaching mode is relatively single and teaching means are relatively backward, which makes the participation and main position of students difficult to play. Teachers often simply teach students the key points of sports, students carry out simple mechanical memory, so students' comprehensive PE quality is difficult to effectively improve.
3. Advantages of computer multimedia tech in college PE

3.1. Promoting the improvement of students' sports quality
First of all, the introduction of computer multimedia tech in the process of college PE can enhance students' observation. Thanks to the intuitive, experiential and interactive characteristics of multimedia tech, it can show the rich teaching content to students in a variety of ways [4]. This not only helps students to better understand the teaching process, but also can promote the interest of PE teaching activities, enhance students' interest in learning, and help students build up observation ability. Secondly, due to the high demands for the accuracy of movements in some sports projects, the simple demonstration teaching method of teachers in the past is not conducive to students' correct understanding and memory. The introduction of multimedia tech can decompose the complex action structure, so as to help students understand the essentials and core of the action in the action playback after decomposition. In addition, the rich details of PE teaching process can also be displayed through computer multimedia, so as to help students establish a systematic and complete understanding of the whole set of movements, and improve their comprehensive sports literacy.

3.2. Fulfil students' personalized learning demands
Due to the differences in PE foundation, physical quality and mental state of the educated college students, it is difficult to carry out targeted training based on the characteristics of students by adopting the previous one size fits all teaching mode, which is not conducive to the maximum improvement of students' sports literacy [5]. Through the introduction of computer multimedia system, it could teach students in accordance with their aptitude according to their specific demands and existing conditions, so as to better match the personalized characteristics and diversified demands of students. In addition, the introduction of this tech can innovate teaching methods, speed up the update of knowledge, introduce the most cutting-edge and most advanced PE teaching concepts into the university classroom, and help to establish a scientific knowledge system, and further extend and expand the teaching knowledge. All of these help to strengthen the students with poor PE foundation, enable them to obtain rapid progress and promotion, help these students to establish self-confidence in learning and feel the happiness of growth and progress.

3.3. Strengthening the dominant position of students
Thanks to the interactive and experiential characteristics of the computer multimedia system, it can greatly stimulate students' initiative learning enthusiasm, so as to further release the students' dominant position. In this case, the teacher is no longer the leader of the teaching process, but as an assistant to help students carry out sports learning. With the help of the characteristics of visualization and sensualization of multimedia system, it can mobilize students' multi sensory participation, and promote students to develop self-learning method system and the concept of lifelong learning. In addition, the multimedia system can slow down, replay and decompose sports events, so as to make the action demonstration clear and accurate, and can make the sports with similar movement tech or correct and
wrong comparative demonstration, let students discuss and draw a conclusion, deepen the understanding of action essentials, better carry out autonomous learning, and improve the effect of students' autonomous learning.

4. Innovative design of computer multimedia college PE teaching mode

4.1. Design of computer multimedia PE teaching platform

First of all, in the expansion and operation environment level of computer multimedia sports teaching platform, select the multi-layer expansion architecture, as shown in Figure 3 below, so as to integrate the collection and display of teaching information data, and realize the integrated processing of teaching data. Secondly, in the module design level, it adopts multiple views and multi-layer structure expression of operation, utilization, support and service to realize file upload and data file block acceptance, so as to avoid the abnormal situation of insufficient server memory [6]. In addition, in the video data transmission level, the data received by the client is turned into a stable and continuous stream, so as to ensure that college students can obtain stable audio and image in the process of using the system, and can download and obtain the teaching resource data on the platform in real time.

![Figure 3. The structure of multimedia sports teaching platform.](image)

4.2. Making of computer multimedia teaching courseware for PE

College Pe curriculum in the process of practical teaching is also inseparable from the theoretical link and support. Using computer multimedia tech to make teaching materials and courseware, students can intuitively and vividly show the essentials of sports and the details of key links. For example, the goal of recording data acquisition by the teacher is standardized. Then the computer analysis system is used to decompose and process the parameters of the standard action, and the key data of the action essentials are obtained. In addition, with the help of computer software, the key decomposition parameters of sports movements are input according to teaching links, so as to organically combine them with theoretical guidance, so as to further strengthen students' cognition and understanding, enhance students' understanding of learning and the understanding of the whole set of movements.

4.3. Innovation strategy of computer multimedia college PE teaching mode

First of all, it should adhere to the student-oriented teaching method, make full use of the interactive characteristics of multimedia, give full play to the advantages of multimedia tech, and carry out individualized teaching. Secondly, it should deal with the relationship between multimedia and traditional teaching, and adopt the teaching method of teachers' theoretical teaching and computer-aided multimedia to help students deepen their understanding of the teaching content, instead of simply pushing the teaching task to the multimedia system. In addition, the innovation of teaching concept and thinking should be embodied in the utilization of multimedia assisted instruction, and interactive teaching links should be constructed to deal with the relationship between knowledge and ability.
5. Conclusion

In summary, the college PE teaching mode based on computer multimedia helps to promote the students' dominant position, help them get more information, and realize the great improvement of their sports accomplishment. The introduction of multimedia tech can innovate teaching methods, speed up the update of knowledge, introduce the most cutting-edge, the most advanced concept of PE into the university classroom, and help to establish a scientific knowledge system. This paper analyzes the current situation and problems of college PE teaching mode through the research on the expansion status quo of college PE teaching mode. Through the analysis of the advantages of computer multimedia tech in college PE, this paper studies the utilization advantages of multimedia tech. Through the research on the innovative design of computer multimedia college PE teaching mode, this paper analyzes the design and innovation strategy of computer multimedia university PE teaching platform.

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