

Problems and Solutions of the Construction of Aesthetic Education Courses in Colleges and Universities

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Abstract: With the development and change of emerging information technologies such as big data, cloud computing, and artificial intelligence, the deep integration and innovation of higher education and information technology has ushered in unprecedented strategic opportunities. At the same time, college AE(aesthetic education), which undertakes the important mission of cultivating and improving college students' aesthetic and humanistic accomplishment, should also take the express train of the mobile Internet to carry out the overall comprehensive reform and innovation of online AE. This paper improves the deficiencies of the content of online AE courses in my country through the research on the content of online AE courses in colleges and universities, and continues to develop the advantages of online AE courses in my country. Relying on the "Internet +" technology, this paper realizes an immersive aesthetic experience, expands the aesthetic vision in multiple fields, and realizes the comprehensive cross-border of AE; promotes the inheritance and innovation of culture, promotes the spirit of Chinese AE, and creates a Chinese style, Chinese style, and Chinese style. AE program. In order to form a new pattern of college AE that "comprehensively improve the quality of popular art education, promote the combination of various disciplines and innovation and entrepreneurship, and promote the integration of college AE and moral, intellectual, physical, and labor". The final results of the study show that the top influencing factor is the reason for teachers' attention, which is chosen by 124 people, accounting for 62%. Teachers' attention and recognition to the course of AE occupy a prominent position in the course of sports AE and promotion, and it is also an important factor hindering its development.

Keywords: Information Technology; Aesthetic Cultivation; AE Courses; Inheritance and Innovation

1. Introduction

Physical education is a unique course with rich aesthetic value, which has been widely affirmed and recognized by many domestic scholars. The aesthetic value of sports also determines its artistry. At present, the state advocates that education should realize the integration of five education, and moral, intellectual, physical, aesthetic and labor should become a complete organism in the education system, complement each other and develop together ^[1]. However, AE has been weakened or even ignored by education at all stages, especially in higher education, the implementation of AE is not ideal. Sports is educating people for health, and beauty is the premise and foundation of health. Therefore, the research on the problems and solutions of the construction of AE courses in colleges and universities has certain practical significance.

In recent years, many researchers have studied the problems and solutions of the construction of AE courses in colleges and universities, and achieved good results. For example, Greene M believes that the arrival of the information age has given AE more possibilities and new opportunities ^[2]. Karkou V believes that the development of education is inseparable from the promotion of information technology, and AE is no exception. Facing the light of the Internet, AE in colleges and universities will also usher in the spring of development, that is, to reshape the new ecology of AE and build a new pattern of AE ^[3]. At present, scholars at home and abroad have done a lot of research on the problems and solutions of the construction of AE courses in colleges and universities. These previous theoretical and experimental results provide a theoretical basis for the research of this paper.

Based on the theoretical basis of the constraints of AE courses, combined with the analysis of the problems and solutions of the construction of AE courses in colleges and universities, and through a series of experiments to analyze the problems and solutions of the construction of AE courses in colleges and universities, it can be seen from the experimental data that the first The influencing factor is the importance of teachers, 62% of the people choose it, followed by the leader's attention, 57%

of the people choose, it can be seen that teachers' attention and recognition of the course of AE are in the sports AE course. It occupies a prominent position in the process of opening and promotion, and it is also an important factor that hinders its development.

2. Related Theoretical Overview and Research

2.1 Problems Existing in the Implementation of Aesthetic Education

Courses for Physical Education Majors in Colleges and Universities

2.1.1 The school does not pay enough attention to the implementation of sports aesthetic education

The school still has a lot of deficiencies in the process of promoting the establishment and implementation of the course of sports AE, and the strength is obviously not enough. Through the analysis of the training plan and curriculum outline of the physical education major in colleges and universities, it can be seen that the physical education major is in the specific training plan. In the course setting, although part of the content involves AE theory and practice, it lacks comprehensiveness and is relatively isolated. The training plan is not fully reflected in other physical education courses, and it does not involve feeling beauty, appreciating beauty, and expressing beauty. The content related to beauty and the ability to create beauty does not involve the implementation content and specific methods of AE in many projects [4-5]. Sports, especially competitive sports, contain profound cultural heritage and aesthetic resources, and at the same time have a relatively prominent AE value.

However, many educators are influenced and imprisoned by traditional thinking and pragmatism. Whether in the field of sports or other fields of education, knowledge and skills can always gain more attention in the process, which belongs to the training of sports themes. At the same time, it also ignores the unique inner spirit of sports itself. The unique aesthetic ideas and unique values of sports are ignored, which also leads to many problems of alienation from the essence of sports. This is the result of a one-sided understanding of sports. The traditional concept holds that physical education is physical education, the main participant in the process is the physical level, and the teaching content is composed of basic knowledge, skills and techniques, and the connection with AE is not close enough. In physical education, the value of AE is ignored.

2.1.2 Weak teachers in aesthetic education teaching

As an important promoter in the education system, physical education teachers are also a decisive factor for the implementation of sports AE. To a large extent, even if teachers have AE awareness, but lack professional knowledge training, the implementation of the overall curriculum is still not ideal. In the specific interviews and questionnaires, it was found that colleges and universities seldom involved thinking about AE in the introduction of talents, and there were very few AE teachers [6].

In addition, the vast majority of teachers' knowledge of AE comes from actively collecting and understanding information on online books, and even without the opportunity to participate in relevant training and experience exchange, and the school has not established the concept of integrating AE, many teachers have relatively weak knowledge, which also affects the effect of the establishment of sports AE courses in colleges and universities. The main reasons are as follows: first, the school does not pay enough attention to the implementation of the curriculum, which also leads to relatively low teaching resources and investment; second, the lack of AE knowledge and the weak concept of AE in the school also caused the lack of attention to this field after participating in the work.

2.1.3 The aesthetic education curriculum system is not perfect

At present, colleges and universities that set up physical education majors in our country have low awareness and

emphasis on AE, which leads to the unsatisfactory setting of AE curriculum system in physical education majors. The school management level lacks in-depth understanding of such courses, and the curriculum system lacks scientificity [7-8]. In most colleges and universities, explicit AE courses are not set up independently, but teachers of various professional courses are only required to integrate AE elements in their teaching, and such hidden AE courses through integration and intersection do not follow the characteristics of majors and the requirements for professional training of talents. Propose specific teaching plans for AE. In recent years, the Ministry of Education has always emphasized that colleges and universities should adhere to the national curriculum standards as the basis, take the theoretical knowledge of AE as the fundamental guidance, insist on improving the system of AE courses, and actively promote the development of AE subject teaching and research.

2.2 Approach Analysis of Sports Aesthetic Education Curriculum

Construction

The construction of AE courses is carried out in combination with the currently proposed physical education goals. The ultimate goal of implementing AE in physical education is to enhance students' ability to recognize beauty, discover beauty, and appreciate beauty in the process of learning, and further cultivate the ability to express and create beauty [9]. While emphasizing the completion of the established content to exercise, students are encouraged to recognize, feel, evaluate, and understand the beauty of movements and enhance their expressiveness. , to enhance the sense of beauty, appreciation and creation.

Implement AE courses in combination with the arranged physical education content, make full use of the content of the teaching materials, feel and refine the beauty from the teaching materials, closely integrate the content of the teaching materials with the students' interest in learning, and choose movements with beautiful images, which is conducive to strengthening Evaluation of the aesthetic value of movements [10-11]. Secondly, it is necessary to select the content of teaching materials reasonably according to gender differences. The AE for girls is aimed at designing the teaching content that matches their toughness and beauty, and the AE for boys focuses on cultivating their tenacious willpower. , the spirit of hard work and enterprising spirit and other aspects of the design.

In the actual teaching process, teachers should optimize the teaching methods and means, pay attention to the interestingness and novelty of the selected content in the teaching process, so as to integrate a rich variety of targeted, artistic and scientific teaching content [12]. At the same time, it is also necessary to fully consider the hardware facilities, including the venue equipment settings and specific layout, patiently experience and taste the various aesthetic factors contained in the teaching content, mobilize the aesthetic experience, and integrate the teaching materials involved. The elements of beauty are melted into the lesson plan, so as to better set up AE courses.

3. Experiment and Research

3.1 Experimental Method

The online learning framework proposed in the experiment analyzes the convergence of the algorithm AMM. The online learning framework arbitrarily gives an unknown convex loss function sequence, and predicts and calculates the value of the unknown function at this point in the t-th iteration. The calculation process is as follows:

$$\bar{R}(T) = \frac{1}{T} \sum_{k=1}^T R(k) + f_T(\theta) \quad (1)$$

$$R(k) = \sum_{t=1}^k (f_t(\theta_t) - f_t(\theta^*)) \quad (2)$$

Where $f(\theta)$ is the minimum value in all historical iterations and is a known function value. $R(k)$ represents the k -th element of the gradient vector θ . When the learning rate T decays at the rate of t , the decay coefficient of the exponential moving average satisfies $\lambda \in (0,1)$ and is close to 1.

3.2 Experimental Requirements

This experiment is mainly aimed at the research on the integration and development of information technology and the construction of AE courses in colleges and universities. The experiment counts the elements of beauty in sports and the impact on students. A total of 187 questionnaires are collected. In the appreciation of aesthetic feelings and beauty, physical and mental health, cultural arts and technical beauty, the selection results of the five sports items are counted, and the main factors affecting the development of AE courses are analyzed through interviews and questionnaires with teachers and relevant leaders of physical education majors in colleges and universities.

4. Analysis and Discussion

4.1 Statistical Analysis of Elements of Beauty in Sports and Its Impact on Students

Statistics on the elements of beauty in sports and the impact on students, a total of 187 questionnaires were collected, and the experimental data are as follows.

Table 1: Statistical analysis of American elements in sports programs and their impact on students

Sports trainee	Number of people	Proportion(%)
Aesthetic feeling	45	20.06
Appreciation of beauty	24	12.83
Physical and mental health	54	28.88
Culture and art	36	19.25
Technical beauty	28	14.97

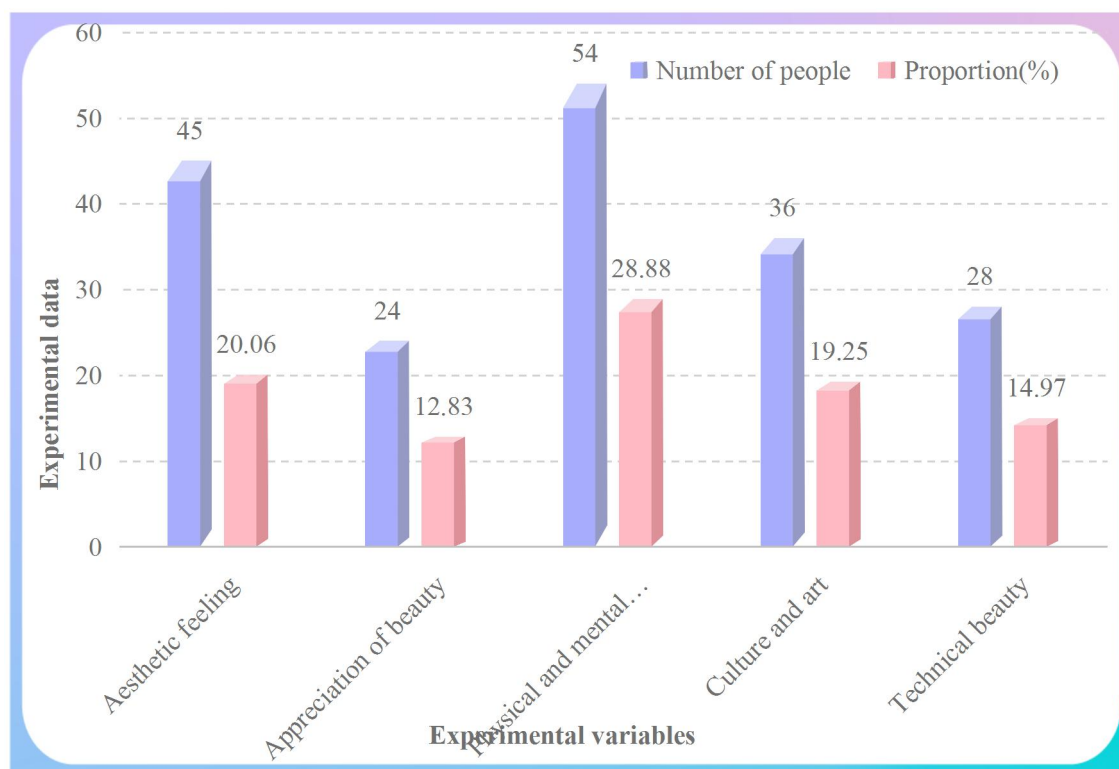


Figure 1: Statistical analysis of the elements of sports in China and the impact on students

From Figure 1 and Table 1, it can be seen from the statistics of the selection of aesthetic elements in the five sports items

of aesthetic feeling, appreciation of beauty, physical and mental health, cultural art and technical beauty, the number of people selected is 45 and 24 respectively. , 54, 36 and 28, accounting for 20.06%, 12.83%, 28.88%, 19.25% and 14.97%, respectively. It can be seen that the number of people who choose aesthetic feeling and physical and mental health is more, indicating that AE courses have greatly improved these two points.

4.2 Investigation and Analysis of Factors Affecting the Development of Sports Aesthetic Education in Professional Colleges and Universities

Through the statistical analysis of the Chinese and American elements of sports projects and the impact on students, the number of people who choose the aesthetic feeling of hands and physical and mental health is more. This experiment continues to investigate and analyze the factors affecting the development of sports AE in professional colleges and universities. The experimental data is shown in the figure below.

As shown in Figure 2, the top influencing factor is the importance of teachers, which is selected by 62% of the population, followed by the importance of leaders, and the number of people chooses it by 57%. The last one is the importance of students and social concerns. They are 32% and 10% respectively. From this point of view, teachers' emphasis on and recognition of the course of AE occupies a prominent position in the establishment and promotion of the course of physical education, and it is also an important factor hindering its development.

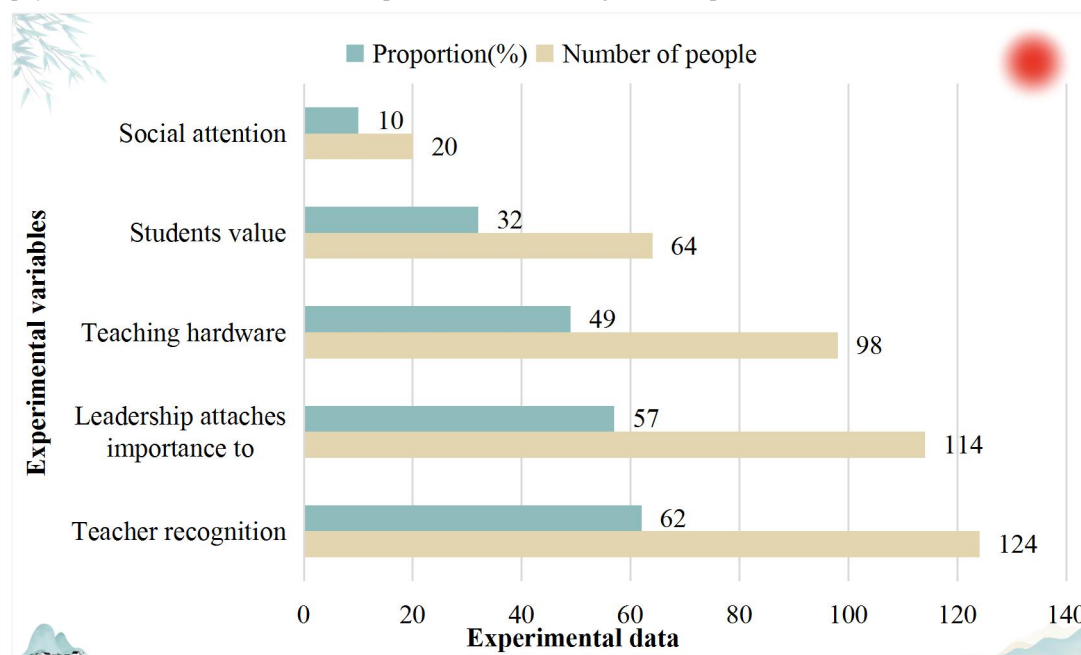


Figure 2: Investigation and analysis of factors affecting the development of sports AE in professional colleges and universities

5. Conclusion

This paper is based on the theoretical basis of the constraints of AE courses, combined with the analysis of the problems and solutions of AE curriculum construction in colleges and universities, and through a series of experiments to analyze the problems and solutions of AE curriculum construction in colleges and universities. From the experimental data of the investigation and analysis of the factors affecting the statistical analysis and the development of sports AE in professional colleges and universities, it can be seen that the number of people who choose aesthetic feelings and physical and mental health is more, indicating that AE courses have greatly improved these two points. Teachers' attention and recognition to the course of AE occupy a prominent position in the course of sports AE and promotion, and it is also an important factor hindering its development. The independent establishment of explicit AE courses can independently design its teaching

objectives and syllabus from the nature and course characteristics of AE itself, so as to better meet the requirements of teachers and students. At present, AE courses are offered as voluntary elective courses for students in a few colleges and universities. In the future, schools need to provide continuously expanding courses and optimize aesthetic education courses to enhance their importance. In the course of aesthetic education, teachers should use the method of combining theory and practice in the classroom to clarify the importance of aesthetics in the development of sports, combined with the characteristics and focus of physical education, and guide students to establish the concept of aesthetic education through theoretical instillation and subtle influence.

Acknowledgements

His paper is one of the research results of the New liberal arts research and Reform practice project of Liaoning Province, Reform and Practice of Multi - dimensional Collaborative Talent Training Mode of New Liberal arts in Local Universities Based on "Government-Industry - University - Research - Application" (project No.: Liaoning Education Office [2021]133-065).

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