



RESEARCH ARTICLE

THE DEVELOPMENT AND INTEGRATION OF SOCIAL SPORTS RESOURCES IN COLLEGE STUDENTS' HEALTH EDUCATION

Zhu Fenggang¹ and Han Wenting²

1. Shandong Foreign Trade Vocational College Taian Campus.

2. Graduate School Of Management, Postgraduate Centre, Management and Science University, Shah Alam, Selangor, Malaysia.

Manuscript Info

Manuscript History

Received: 13 June 2025

Final Accepted: 15 July 2025

Published: August 2025

Key words:-

Social sports resources; College students' health education; Tai'an City

Abstract

With the rapid development of higher education in China, health education for college students has become an integral component of the talent cultivation system in universities. As a crucial complement to college students' health education, the development and integration of social sports resources play a significant role in enhancing the quality of health education. Taking Tai'an City as a case study, this paper investigates the development and integration pathways of social sports resources within college students' health education. Firstly, it analyzes the connotative characteristics and educational value of sports resources in Tai'an City. Secondly, it elaborates on the alignment between the advantages of these sports resources and the objectives of university health education. Finally, the paper proposes specific strategies for the development and integration of Tai'an's sports resources to support college students' health education, aiming to provide both theoretical guidance and practical references for the innovative advancement of health education in higher education institutions.

"© 2025 by the Author(s). Published by IJAR under CC BY 4.0. Unrestricted use allowed with credit to the author."

Introduction:-

College students represent a vital force for the future development of the nation, and their physical and mental well-being significantly influences national progress and the rejuvenation of the Chinese nation. In recent years, universities across China have increasingly emphasized health education for college students. However, in practice, challenges such as insufficient resources, limited formats, and low effectiveness still persist. As a crucial component of the social public service system, social sports resources are characterized by their richness, openness, and practicality, offering diverse support for enhancing the health education of college students.

Taian City, as a prominent tourist destination and a leading sports city in Shandong Province, possesses abundant social sports resources, including natural sports resources, cultural sports resources, and sports venue facilities. The integration of these resources into college students' health education can not only enrich the content and delivery methods of such education but also improve students' health literacy and practical competencies. Based on the method of speculative research and in consideration of the local context of Taian City, this paper thoroughly

investigates the integration mechanism between social sports resources and college students' health education, offering theoretical support and practical guidance for the innovative development of health education in higher education institutions.

Connotations, Characteristics, and Educational Values of Sports Resources in Tai'an City

Conceptual Definition of Sports Resources in Tai'an City:

Sports resources in Tai'an City refer to the comprehensive set of elements that can support and facilitate sports-related activities within the city's administrative boundaries. These resources are characterized by their richness and diversity, primarily comprising the following categories:

Natural Sports Resources:

The landscape resources centered on Mount Tai constitute the most distinctive category of natural sports resources in Tai'an. As a dual UNESCO World Cultural and Natural Heritage Site, Mount Tai offers unique topographical and ecological conditions that serve as ideal natural venues for various physical activities, including mountaineering, trekking, rock climbing, and outdoor adventure training. In addition, other natural scenic areas such as Culei Mountain and Dongping Lake also provide suitable environments for a wide range of outdoor sports and recreational activities.

Humanistic Sports Resources:

Tai'an City possesses a deep-rooted sports cultural heritage, which encompasses traditional sports practices, event-based sports cultures, and notable sports figures. Traditional sports such as Mount Tai martial arts and Tai Chi-based health practices reflect the region's cultural identity and historical continuity. Furthermore, the city hosts a variety of recurring sports events, including the Mount Tai International Mountaineering Festival and the Tai'an Ring-Mountain Trekking Event, which have contributed to the formation of a distinctive event culture. Additionally, Tai'an has produced several prominent athletes and sports personalities, whose achievements and values carry substantial educational significance and potential for inspiration.

Venue and Facility Resources. Tai'an City is equipped with a relatively comprehensive system of sports venues and facilities, including the Tai'an Sports Center, district-level sports complexes, community fitness centers, and park-based fitness trails. These facilities accommodate a wide variety of sports disciplines, such as track and field, ball games, and swimming, and are capable of supporting diverse sports activities.

Human Resources. The human resources component encompasses professional sports coaches, certified social sports instructors, physical education teachers, and volunteers actively engaged in the sports industry. These individuals possess extensive sports knowledge and practical skills, and are able to provide professional guidance and support for the organization and implementation of sports activities.

Characteristics of Sports Resources in Tai'an City:

Abundant and Distinctive Resources. Tai'an City possesses a wide variety of sports resources that span multiple domains, including natural, cultural, venue-based, and human resources. Among these, the natural sports resources centered around Mount Tai are uniquely positioned within the country. Events such as the Mount Tai International Climbing Festival have gained widespread recognition, contributing to the region's distinctive sports identity.

Rich Cultural Heritage. The sports resources in Tai'an City are deeply intertwined with the area's historical and cultural background. For example, Mount Tai martial arts reflect the spiritual essence of the mountain, while Tai Chi for health preservation embodies traditional Chinese concepts of wellness. These elements enrich the sports resources with profound cultural significance.

Broad Popular Participation. Tai'an City places significant emphasis on the development of mass sports, regularly organizing inclusive fitness activities such as community aerobics competitions and township basketball leagues. This has fostered a strong culture of sports participation. The extensive public engagement ensures the effective utilization of sports resources and creates a favorable social environment for college students to engage in physical activities.

Rational Regional Distribution. The sports venues and facilities in Tai'an City are not only concentrated in urban centers but are also distributed across counties, districts, and towns. Nearly every residential community features

community fitness trails. This spatial distribution facilitates convenient access for college students to participate in sports activities, thereby enhancing the overall accessibility and usability of sports resources.

The Educational Value of Sports Resources in Tai'an City:

Enhancing Physical Fitness. The abundant sports facilities and natural sports resources in Tai'an City provide college students with diverse opportunities for physical activity. By engaging in activities such as mountain climbing, running, swimming, and ball games, students can improve their physical fitness, enhance cardiovascular and respiratory functions, increase muscular strength, and alleviate sub-health conditions, thereby promoting overall physical well-being.

Cultivating Willpower and Team Spirit. Certain outdoor sports activities, such as hiking on Mount Tai and rock climbing, involve physical and mental challenges. Participation in these activities requires students to overcome obstacles and persist through difficulties, which effectively fosters perseverance and resilience. At the same time, team-based sports such as basketball and football require collaboration and communication, helping students develop a sense of teamwork and cooperative awareness.

Inheriting and Promoting Traditional Culture. The humanistic sports resources in Tai'an City are deeply rooted in traditional Chinese culture. Traditional sports such as Tai'an martial arts and Tai Chi embody key elements of China's cultural heritage. Through the practice of these sports, college students can gain a deeper understanding of traditional cultural values, strengthen their cultural confidence, and contribute to the preservation and promotion of intangible cultural heritage.

Improving Mental Health. Sports activities serve as effective tools for stress relief and emotional regulation. The diverse sports resources available in Tai'an City offer college students ample opportunities to engage in physical exercise. Regular participation in such activities helps relieve academic and life-related stress, alleviate symptoms of anxiety and depression, and ultimately enhance psychological well-being.

Cultivating a Healthy Lifestyle. Participation in community-based sports activities exposes college students to essential health knowledge and concepts. Through sustained engagement in physical exercise, students come to recognize the importance of regular physical activity for maintaining health. Over time, they develop the habit of consistent exercise and gradually form a healthy lifestyle, which has long-term positive implications for their personal and professional development.

The Strong Alignment Between Tai'an's Sports Resources and the Objectives of Health Education in Higher Education Institutions

The Objectives of Health Education in Colleges and Universities:

The primary objective of health education in higher education institutions is to enhance students' health literacy through systematic instruction and practical engagement, thereby promoting both physical and mental well-being. Specifically, these objectives can be summarized as follows:

Enhancing Physical Fitness. Through structured physical exercise, improve the overall physical condition of college students and reduce the risk of illness.

Improving Mental Health. Foster positive psychological traits among college students, strengthen their ability to cope with stress and adversity, and prevent the onset of mental health disorders.

Cultivating Healthy Behaviors and Lifestyles. Equip college students with essential health knowledge and skills, enabling them to develop good hygiene practices, dietary habits, and regular exercise routines.

Promoting Social Adaptability. Through participation in sports and health-related social activities, enhance students' interpersonal communication abilities and foster a sense of social responsibility.

Advantages of Sports Resources in Tai'an:

Diverse Sports Options. The sports resources in Tai'an encompass a wide variety of sports, including traditional disciplines such as ball games and track and field, as well as region-specific activities like mountain climbing, outdoor adventure training, and martial arts. This diversity meets the varied interests and physical conditions of college students, thereby enhancing their motivation and engagement in sports activities.

High-Quality Outdoor Sports Environment. The natural landscapes centered around Mount Tai provide college students with an exceptional outdoor sports environment. Engaging in outdoor physical activities allows students to connect with nature, breathe fresh air, and relieve academic stress while improving their physical health.

Rich Sports Cultural Resources. Tai'an is home to abundant sports cultural resources, with influential events such as the Mount Tai International Climbing Festival and martial arts competitions playing a key role in promoting sports culture. Participation in these events enables college students to experience the cultural depth of sports, fostering greater appreciation for and involvement in physical activities.

Well-Developed Sports Venues and Facilities. Tai'an possesses a relatively comprehensive system of sports venues and facilities, which not only satisfy the daily exercise needs of college students but also support university-level sports instruction, training programs, and competitive events.

The Compatibility of Tai'an's Sports Resources with the Objectives of College Health Education:

Compatibility with the Objective of Enhancing Physical Fitness. The diverse sports events and high-quality outdoor sports environment in Tai'an offer college students ample opportunities for physical exercise. Different types of sports target various parts and functions of the human body. For example, mountain climbing strengthens leg muscles and improves cardiovascular and respiratory functions, while swimming enhances body coordination and endurance. Through participation in these activities, college students can effectively improve their physical fitness, thereby fulfilling the objective of college health education to enhance physical well-being.

Compatibility with the Objective of Improving Mental Health. Outdoor sports activities and sports cultural events have a positive influence on the psychological well-being of college students. In natural outdoor settings, students can escape urban stress and academic pressures, allowing for mental and physical relaxation. Participation in competitive and team-based sports fosters self-confidence and a sense of belonging, enhancing students' ability to cope with stress and adversity. Furthermore, the rich sports cultural activities in Tai'an contribute to emotional satisfaction and a sense of achievement, helping to alleviate anxiety, depression, and other negative emotions. These outcomes align with the objective of college health education to promote mental health.

Compatibility with the Objective of Cultivating Healthy Behaviors and Lifestyles. Tai'an's sports resources serve as a platform for college students to acquire and apply health-related knowledge and skills. Through active participation in sports activities, students can learn the principles and safety guidelines of various sports and master scientifically based exercise methods. Additionally, sports cultural events help disseminate health concepts and guide students toward the development of healthy habits. For instance, the "Health, Environmental Protection, and Happiness" philosophy promoted by the Taishan International Mountain Climbing Festival can positively influence students' lifestyle choices and encourage the adoption of healthy behaviors, which supports the objective of college health education to cultivate healthy lifestyles.

Compatibility with the Objective of Promoting Social Adaptability. Tai'an's sports resources provide college students with numerous opportunities for social engagement and practical experiences. Participation in community sports events, volunteer services, and similar activities enables students to interact and collaborate with individuals of different ages and professions, thereby improving their interpersonal communication skills. In team sports, cooperation and mutual support are essential, which helps cultivate a sense of teamwork and responsibility. These experiences collectively enhance students' social adaptability, aligning with the objective of college health education to foster interpersonal and social development.

Development and Integration Pathways of Tai'an's Sports Resources for University Health Education

Construction of a Curriculum Integration System:

Incorporating Local Characteristic Sports into the Curriculum. Universities can collaborate with Tai'an's sports authorities and martial arts associations to integrate region-specific sports such as Tai Mountain martial arts and Tai Chi-based health practices into the physical education curriculum. By offering related elective and compulsory courses and employing qualified instructors for instruction, students can systematically acquire both the physical techniques and cultural knowledge associated with these sports. For example, a specialized course on Tai Mountain martial arts can be introduced within physical education programs. Through learning martial arts movements and exploring the cultural background, students not only improve their physical fitness but also engage in the inheritance and appreciation of traditional culture.

Developing Outdoor Sports Practice Courses. Natural sports resources such as Mount Tai and Culei Mountain can be utilized to develop outdoor physical education courses, including mountain climbing, wilderness exploration, survival training, and outdoor adventure activities. These courses should be incorporated into the physical education curriculum as part of the practical credit system. In addition to teaching the necessary sports skills, these courses should also emphasize the development of safety awareness and environmental consciousness. Through such experiential learning, college students can enhance both their physical fitness and practical competencies.

Integrating Health Knowledge with Sports Skills Teaching. Health education should be integrated into physical education courses to promote a more holistic approach. For instance, when teaching sports physiology, instructors can introduce suitable local sports methods and intensity levels based on Tai'an's climate and geographical conditions. When teaching ball games, they can incorporate lessons on injury prevention and rehabilitation. Through this integrated approach, college students can acquire essential health knowledge alongside the development of sports skills, thereby enhancing their overall health literacy.

Diversifying Sports Activities:

Organizing a Campus Sports and Culture Festival. Universities can integrate the sports and cultural resources of Tai'an City by organizing a Campus Sports and Culture Festival. During the festival, a variety of activities such as sports competitions, cultural exhibitions, and health knowledge lectures can be held. Sports celebrities and experts from Tai'an can be invited to give on-campus talks on sports culture and health education. In addition, students can participate in supporting events of major local sports festivals, such as mini mountaineering competitions and sports photography contests, which will enrich campus life and enhance students' sports and cultural literacy.

Organizing Community-Based Sports Practice Activities. Universities can collaborate with local communities in Tai'an City to implement community-based sports practice programs. For example, college students can serve as volunteers to assist in teaching fitness exercises and organizing sports events within communities. They can also participate in community health promotion initiatives to disseminate health knowledge to local residents. Through these activities, college students can strengthen their sense of social responsibility and practical skills, while also contributing to the development and promotion of community sports culture.

Conducting Outdoor Sports Research and Learning Activities. Leveraging the natural sports resources of Tai'an City, universities can organize outdoor research and learning programs. Students can conduct field studies and engage in physical activities at scenic locations such as Taishan Mountain and Dongping Lake. By integrating the natural and cultural features of these sites, interdisciplinary teaching combining sports with subjects such as geography, history, and cultural studies can be implemented. For example, during a Taishan research trip, students can learn about the mountain's geological structure and historical significance while participating in physical activities like hiking and climbing, thereby achieving an effective integration of academic learning and physical exercise.

Strengthening the Construction of the Teaching Staff:

Introducing Professional Talent from the Community. Universities can recruit experienced sports professionals from local sports departments, associations, and fitness clubs in Tai'an City to serve as part-time instructors or off-campus mentors. These individuals bring valuable practical experience and specialized skills, offering college students more professional guidance in sports and health-related consultations.

Enhancing In-Service Teacher Training. Universities should encourage in-house physical education teachers to participate in training programs organized by Tai'an City, such as social sports instructor training and specialized sports project workshops. Through such professional development opportunities, teachers can improve their expertise and pedagogical competence, enabling them to better incorporate Tai'an's sports resources into their teaching. Additionally, teachers should be encouraged to participate in local sports research projects to strengthen their research capabilities and foster innovation in sports education.

Establishing a Shared Teaching Resource Mechanism. Universities should collaborate with sports colleges and research institutions in Tai'an City to establish a shared teaching resource mechanism. By exchanging faculty members and researchers, and engaging in joint teaching and research activities, institutions can optimize the distribution of educational resources and elevate the overall quality of sports education and academic research.

Establishing a Collaborative Cooperation Mechanism:

Joint Construction of Sports Education Bases with Local Authorities. Universities can collaborate with Tai'an City's sports administration and scenic area management departments to co-establish sports education bases. Practical teaching bases can be developed at locations such as Mount Tai and the Tai'an Sports Center, providing college students with platforms for physical exercise and hands-on training. At the same time, universities can contribute teaching personnel and research support to these bases, jointly engaging in activities such as the development of sports programs and the organization of sporting events.

Joint Development of Sports and Health Products with Enterprises. Universities can partner with local sports enterprises in Tai'an City to develop sports and health products tailored to the needs of college students, such as fitness equipment, sportswear, and health management applications. This collaboration not only provides students with high-quality sports and health products but also promotes the application of university research outcomes and supports the growth of the local sports industry.

Establishing a College Student Sports Volunteer Service System. Universities can work with sports associations and communities in Tai'an City to establish a structured sports volunteer service system for college students. By organizing student volunteers to participate in event support, community fitness guidance, and health promotion activities, students can enhance their overall competencies while contributing meaningfully to society.

Building a Platform for Resource Sharing:

Establishing a Sports Resource Information Sharing Platform. Led by the Education and Sports Departments of Tai'an City, a sports resource information sharing platform will be constructed. This platform will integrate data on sports venues and facilities, sports events and activities, as well as coaching resources across the city. Colleges and universities will be able to search for and reserve sports resources through this platform, thereby achieving more efficient resource utilization. In addition, the platform will also serve as a channel for disseminating health-related knowledge and providing access to sports instructional videos, offering students opportunities for learning and interaction.

Sharing Sports Venues and Facilities. Institutions of higher education will enter into cooperative agreements with local sports venue operators in Tai'an City to facilitate shared access to sports venues and facilities. During after-school hours and holidays, universities can organize students to use these social sports venues for exercise and competitions. Conversely, when colleges and universities host large-scale sports events, social venues can provide necessary venue support. Through this collaborative resource-sharing model, the utilization rate of sports venues can be significantly improved, while the operational costs for educational institutions can be effectively reduced.

Sharing Sports Event Resources. Colleges and universities will actively engage in various sports events and activities hosted in Tai'an City, such as the Taishan International Mountain Climbing Festival and the City Marathon. At the same time, universities can also incorporate their own sporting events into Tai'an City's broader sports event framework, encouraging participation from all sectors of society. By sharing sports event resources, the visibility and impact of university sports activities can be enhanced, while simultaneously enriching the sports and cultural experiences of college students.

Conclusion:-

Tai'an City is endowed with a diverse array of social sports resources, which carry unique connotations and significant educational value, and are highly aligned with the health education objectives of colleges and universities. Integrating the development of these resources into the health education of college students represents an effective strategy to enhance the overall quality of health education in higher education institutions.

By constructing an integrated curriculum system, organizing a variety of sports activities, strengthening the teaching staff, establishing a collaborative cooperation mechanism, and developing a resource-sharing platform, the organic integration of Tai'an's social sports resources with college students' health education can be effectively realized. This approach not only enriches the content and delivery methods of health education, thereby improving students' health literacy and overall quality, but also promotes the optimal allocation and efficient utilization of Tai'an's social sports resources, contributing to the coordinated development of local sports and higher education.

In future practice, it is essential to further enhance collaboration among colleges and universities, government agencies, and social entities. Continuous efforts should be made to explore and refine the mechanisms and models for integrating social sports resources into college students' health education, so as to make greater contributions to the cultivation of well-rounded socialist builders and successors who excel in morality, intelligence, physical fitness, aesthetics, and labor.

References:-

- [1] Tan Guangxin, Liu Hongjian, Zhou Chi. Research on the Path of Integrating Local Traditional Sports Resources into the College Physical Education Curriculum: A Case Study of Jiangsu Local Traditional Sports Resources. **Journal of Nanjing Sport Institute**, 2020, 19(7): 69–74.
- [2] Li Li, Ren Huitao. Meta-analysis of the Impact of Physical Exercise on College Students' Mental Health. **Journal of Beijing Sport University**, 2019, 42(6): 104–111.
- [3] Liu Yimin, Sun Qingzhu, Sun Yuexia. Research on the Function, Characteristics and Construction of Campus Sports Culture. **China Sports Science and Technology**, 2003, 39(6): 21–23, 26.
- [4] Tang Yan, Song Yu, Chen Po, et al. Historical Evolution, Current Dilemmas and Promotion Strategies of the Integration of Sports and Education in China. **Journal of Sports Science**.
- [5] Wang Jian, Chen Linong. Feasibility Study on Integrating Outdoor Sports Education into the College Physical Education Curriculum. **Journal of Beijing Sport University**, 2016, 39(6): 89–94.
- [6] Ji Liu. Review and Prospect of College Physical Education Reform in China over the Past 30 Years. **Journal of Shanghai University of Sport**, 2008, 32(6): 62–67.
- [7] Dong Cuixiang, Zhou Dengsong. Discussion on the Current Situation and Development Countermeasures of College Community Sports in China. **Journal of Beijing Sport University**, 2002, 25(4): 500–502.
- [8] Yang Hua, Ren Hai. Reform and Innovation of Sports Resource Allocation Mode in China. **Journal of Sports Science**, 2006, 26(12): 3–10.
- [9] Qiu Pixiang, Yang Jianying. Cultural Review and Path Selection for the Development of Traditional Chinese Sports. **Journal of Shanghai University of Sport**, 2010, 34(1): 1–6.
- [10] Ji Liu, Hu Zengluo. **Theory of Physical Education and Health Curriculum and Teaching** [M]. Hangzhou: Zhejiang Education Press, 2003.