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Research on the Construction of Campus Aviation Culture Environment in Civil Aviation Colleges

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Abstract: The school has the unique advantage of centralized, systematic and continuous education of excellent traditional Chinese culture. Civil aviation colleges and universities should not only focus on the cultivation of knowledge and skills, but also incorporate the core values, industry spirit, and behavioral norms of civil aviation into the entire process of talent cultivation The paper points some shortcomings in the new pattern of campus cultural environment, puts forward the concrete methods of campus culture education from six aspects: Campus aviation culture environment material carrier construction, spiritual ecology construction, system construction, behavior activity construction, teaching atmosphere construction, technology integration construction.

Keywords: Campus; Environment; Aviation; Spirit.

1. Introduction

"Only with a comprehensive and in-depth understanding of the history of Chinese civilization can we more effectively promote the creative transformation and innovative development of fine traditional Chinese culture, more effectively promote the construction of socialist culture with Chinese characteristics, and build the modern civilization of the Chinese nation." In addition to focusing on the cultivation of knowledge and skills, civil aviation colleges and universities should incorporate the core values, industry spirit and code of conduct into the whole process of personnel training. n particular, based on the concept of "smart civil aviation", the campus cultural environment with professional characteristics of "civil aviation spirit" and "corporate culture" is effectively connected to achieve a new pattern of educating people by culture and environment, and achieve seamless docking from "outstanding graduates of civil aviation industry colleges and universities" to "qualified employees of civil aviation enterprises".

2. The Problem of Constructing Campus Aviation Culture Environment

At present, there are still some deficiencies in civil aviation colleges and universities in constructing a new pattern of campus cultural environment that effectively connects "civil aviation spirit" and "enterprise culture" with professional characteristics: First, pay not enough attention to the construction of campus cultural environment and fail to build a campus cultural environment that effectively cultivates students' fine traditions and spiritual sublimation. Second, pay not enough attention to the principal status of students, lack of high-level and high-style cultural taste, and lack of cultural connotation construction around "civil aviation spirit" and "enterprise culture"; Third, the resultant force of campus culture education has not yet formed and has not been effectively integrated with the whole process of talent training, which weakens the depth and breadth of culture integration in the whole process of teaching and education.

Based on the above questions, the paper puts forward the concrete methods of campus culture education from six aspects: Campus aviation culture environment material carrier construction, spiritual ecology construction, system construction, behavior activity construction, teaching atmosphere construction, technology integration construction. Clarifying the value orientation and deeply integrate the "civil aviation spirit" and "corporate culture" as the main line of cultural edu

3. Specific Approach

3.1. Construction of Physical Carrier of Campus Aviation Culture Environment

The material carrier of campus aviation culture environment is the direct embodiment and carrier of aviation culture. These material carriers, whether buildings, signs or facilities integrating various aviation elements, silently convey the unique charm and profound heritage of aviation culture. In the process of the construction of the material carrier of the campus aviation cultural environment, we should pay attention to the scientific planning, system and coherence of the construction of the campus cultural material carrier, and keep pace with the latest development of civil aviation.

The campus gate cleverly incorporates the wing configuration design of the domestically produced large aircraft C919, showcasing its unique aviation charm; The construction of campus main roads draws inspiration from the structural design of runway and taxiway of Class B airports in the civil aviation plateau, with smooth lines and broad views, creating a realistic style of airport flight area; Campus greening has also introduced artificial bird repellent lawn materials and technologies from airports, deeply integrating the green and low-carbon concepts of civil aviation into campus environmental construction, providing teachers and students with a beautiful and environmentally friendly learning space; The main building and interior design of the campus draw inspiration from aircraft design concepts, emphasizing the embodiment of aviation elements in details. The design inspiration for windows comes from aircraft portholes, emphasizing spatial sense and functionality, providing students with a more comfortable and efficient

learning environment; The outdoor practical teaching area on campus not only imitates the plane layout of the airport apron, but also draws on its functional characteristics. The signage, signs, and guidance system on the apron are also applied to the teaching area, helping students quickly understand and adapt to the practical environment.

3.2. Construction of Spiritual Ecology of Campus Aviation Culture Environment

The ecological construction of the cultural environment of park aviation has the characteristics of both explicit and invisible, which is a long-term accumulation process and a concentrated embodiment of the school running spirit. During the construction of campus aviation cultural environment and spiritual ecology, Guangzhou Civil Aviation Vocational and Technical College pays attention to the hierarchical construction of campus aviation cultural environment and spiritual ecology, forming three levels of construction mode: school level, secondary college level and professional level.

At the school level, based on the requirements for high-quality development of civil aviation in the new era, the actual situation, characteristics, and history of the school, a detailed strategic plan is formulated to provide clear guidance for all teachers and students. "Unity, enterprising, pragmatic, and innovative" is condensed into the school motto, becoming the group values followed by the work and learning of teachers, students, and employees; At the level of secondary colleges, based on the school's strategic planning and policy guidance, clarify the specific tasks and goals of our college in the construction of aviation cultural environment and spiritual ecology, and build a college culture with aviation characteristics. Through activities such as designing the college emblem, teachers and students can feel the influence of aviation culture in their daily learning and life; At the professional level, implement "one specialty, one characteristic project", take the civil aviation safety technical inspection profession as an example, implement professional standardized management, and strengthen the cultivation of learning style construction.

3.3. Construction of Campus Aviation Cultural Environment System Norms

The construction of campus aviation culture environment system is an important guarantee to ensure the orderly and healthy development of aviation culture. It plays an important role in promoting the new pattern of campus aviation culture environment education. In the process of planning and construction of campus aviation cultural environment system, pays attention to the system of system planning and construction, especially the establishment of evaluation and feedback mechanism.

Establish a diagnostic and improvement committee for the internal quality assurance system at the school level, with the aim of comprehensively evaluating and providing feedback on the educational effectiveness of campus aviation culture construction, and proposing rational suggestions; More than 10 management regulations have been introduced to regulate the development of campus aviation cultural environment from multiple aspects, providing a solid institutional guarantee for the cultural construction of the college. Standardized the planning, execution, and management processes of campus cultural activities to ensure their efficient and orderly progress.

3.4. Construction of Campus Aviation Cultural Environment Behavior Activities

It not only helps to cultivate students' aviation feelings and professional qualities, but also promotes the innovative development of campus culture construction and provides strong support for training high-quality aviation talents. In the construction of campus aviation culture and environment behavior activities, the starting point is to shape the school's characteristic culture and cultivate students' aviation spirit, and the starting point is to improve students' professional practice ability. The work focuses on aviation ideology and morality, aviation academic science and technology, aviation sports and arts, and aviation social practice.

Ideological and moral aviation activities focus on lectures and other forms, such as the regularly held Baiyun Lecture Hall activities, which cleverly integrate aviation knowledge with ideological and moral education, and enhance students' ideological and moral qualities; Academic science and technology activities focus on the declaration of innovation and entrepreneurship competition projects. For example, our school regularly organizes the college trials of the Internet plus Undergraduate Innovation and Entrepreneurship Competition, which improves students' literacy and scientific and technological innovation ability. Sports and arts activities focus on the dissemination and experience of aviation culture. For example, our school regularly organizes the "Shuxiang Campus" essay collection activity, which enables students to feel the unique charm of aviation culture in their appreciation and creation. Aviation practice activities focus on the experience of real jobs. For example, our school regularly organizes students' corporate job cognition practice, which improves students' sense of identity and belonging to aviation.

3.5. Construction of Campus Aviation Culture Environment Teaching Atmosphere

The construction of campus cultural environment teaching atmosphere not only helps to improve students' aviation cultural accomplishment, but also stimulates students' innovative spirit and exploration desire, which plays an important role in improving students' school effect. Continuously and dynamically optimize the teaching atmosphere of campus cultural environment, especially based on the background of "smart airport" in recent years, integrate the "civil aviation spirit" into the whole process of talent training, and build a campus aviation cultural environment teaching atmosphere with industry characteristics.

Establish a school's high-quality development leadership group for planning and coordination, and do a good job in top-level design; Simultaneously establish a guidance committee composed of experts and technical personnel from the government, airports, research institutes, enterprises, and regularly hold seminars through a combination of online and offline methods; Implementing production-oriented scenario practical teaching based on virtual simulation technology, cultivating students' professional skills and job adaptability in a real professional environment; Create a strong corporate culture atmosphere in the practical teaching environment and create more realistic work scenes.

3.6. Campus Aviation Cultural Environment Technology Integration Construction

The technology integration construction of campus aviation cultural environment not only helps to improve the

modernization and intelligence level of campus aviation cultural environment, but also promotes the innovative development of campus culture and provides strong support for cultivating more talents with aviation cultural literacy and innovative spirit. Focusing on the introduction of cutting-edge technology, through technological innovation and application, the use of virtual reality (VR), augmented reality (AR) and other advanced technologies to create a more advanced, more vivid, more interactive campus aviation culture experience environment for students.

Based on new generation information technologies such as virtual reality and artificial intelligence, we have constructed an open and shared comprehensive aviation operation and maintenance virtual simulation training venue that integrates teaching, practical training, training, scientific research, competition, popular science, and other functions with perception, immersion, interactivity, conceptualization, and intelligence; Built an aviation virtual simulation and training system that combines reality with virtuality, virtuality with reality, and virtuality; Develop aviation virtual simulation training resources that are aligned with job skills, talent training programs, vocational training programs, and internship training; We have built a high-quality aviation virtual simulation teaching team with the ability of "virtual simulation training teaching+virtual simulation training resource development"; We have established a sound and comprehensive virtual simulation training base, management, and evaluation mechanism.

4. Effectiveness

4.1. The Quality of Training Aviation Professionals has Widely Recognized

The quality of talent cultivation continues to improve. More than 4000 graduates have been sent to civil aviation enterprises and institutions, with a pass rate of 82% for their dual certificates. The satisfaction rate of graduates with their professional abilities is 97.53%, and the satisfaction rate of employers is higher than the average level in the province, which has produced good social effects.

Outstanding students stand out and achieve maximum growth. Students have won dozens of competition awards in the national civil aviation system, regional civil aviation system, and various provincial and municipal vocational skills competitions, and have won multiple national, provincial, and municipal honorary titles; More students have become backbone and management personnel in enterprises, and in the past decade, the proportion of graduates becoming management cadres at all levels has exceeded 30%.

4.2. Leading the Reform of Campus Aviation Culture Education in Civil Aviation Colleges and Universities, With a Significant Demonstration Effect

Highly recognized by the civil aviation regulatory authorities. The application of the aviation cultural environment education model in the campus of civil aviation colleges and universities in the training of Chinese civil aviation flight dispatchers has gained high recognition from participating units through the exchange and sharing of experiences in multiple meetings.

Radiation drives relevant universities. The campus aviation culture education model has received attention and recognition from relevant domestic colleges and universities, and has been surveyed by Changsha Civil Aviation Vocational and Technical College, Shanghai Civil Aviation Vocational and Technical College, and other units to assist in teaching reform and talent cultivation in relevant colleges and universities, benefiting more than 5000 students.

Mainstream media promotion and reporting. China Civil Aviation Daily, China Education Daily and other media outlets publish articles to report on the reform of aviation culture education in schools, and provide publicity and coverage for industry talents.

5. Conclusion

Building a campus environment culture that effectively inspires students to be positive and spiritually baptized, forming a distinctive new pattern of campus cultural education that effectively connects "civil aviation spirit" and "corporate culture", significantly improving students' basic literacy and professional ethics, enabling them to more effectively understand the importance of air transportation safety and the current situation of enterprise competition, enhancing their safety awareness, and enabling them to have a clearer understanding of civil aviation spirit, transforming their role from a student to a professional employee.

In the future, we should innovate in the construction of campus aviation cultural environment and enhance the timeliness of educating students in campus aviation cultural environment. Firstly, build a digital campus aviation campus culture display platform to present the essence and characteristics of campus aviation culture in a more intuitive and vivid way, allowing students to have a deeper and more convenient understanding of the connotation and value of campus aviation culture; Secondly, strengthen international exchanges and cooperation in the construction of campus aviation cultural environment. Through cooperation and exchange with internationally renowned aviation colleges and enterprises, advanced aviation education concepts and technologies are introduced to enrich the connotation and form of campus aviation cultural environment construction. Once again, pay attention to the innovation and practicality of the campus aviation cultural environment. Establish a campus aviation culture innovation laboratory, encourage students to engage in aviation technology innovation practice, cultivate innovative thinking and hands-on ability.

In short, the creation of a campus aviation cultural environment has profound and extraordinary significance. We must constantly explore and innovate, actively practice, and deeply integrate the latest aviation concepts, culture, and technology into the construction of campus cultural environment. To create a more diverse and dynamic learning environment for students, allowing them to absorb knowledge, stimulate innovation, and achieve comprehensive development in a strong aviation culture atmosphere.

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