The reform and practice of art design class Revolution in higher vocational colleges under the background of double high school

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Abstract. In the development of social economy and science and technology innovation, higher vocational colleges in our country in the full implementation of education department and financial department on the implementation of Chinese characteristics in planning the development of the high level of higher vocational schools and professional opinions, the continuous optimization of the art design class course system and education mode, puts forward the effective solutions for specific problems. On the basis of understanding the double-hook background, according to the implementation of vocational art and design curriculum education in recent years, this paper makes clear the practical significance of constructing smart classroom, and deeply discusses how to reform high-quality art and design classroom under the double-high background. The final experimental results prove that the reform of art design class in higher vocational colleges under the background of double high school meets the requirements of modern talent cultivation and can provide basic power for the development of art field.

Keywords: Higher vocational colleges; Double height background; Art design; Classroom reform; Cultivation of talents.

1. Introduction

After the reform plan of higher vocational education is clear, the structure of art and design students shows the characteristics of diversification. Traditional art design class students in higher vocational colleges are mostly college graduates, the current will recruit workers laid off, retired soldiers, migrant workers, etc., deep Fried tripe degree includes college, high school and technical secondary school, students are from the original art students to have multiple education background of students, their age groups broke the original scope of 17 to 20 years old, Students' mentality changes, learning needs, learning objectives are different. Although the expansion of college enrollment is helpful to solve the problem of resource shortage of higher vocational students, it also increases the difficulty of practical education management. [1.2.3] At the same time, in the development of modern social and economic innovation, art design class industry development faster and faster, with the market types of the information contained in the more and more, all kinds of product technical service updates faster and faster speed, higher vocational education environment and teaching mode does not change, eventually leading to cultivate excellent talents and enterprise demand. In order to adapt to the new market environment, some higher vocational colleges have added more professional courses. Although it can expand the employment scope of professional students, it is difficult to achieve the precise and differentiated educational management goals, and it cannot achieve results in a short time. From the current perspective, high-quality art design class classroom education reform under the influence of various factors, the factors of strength continues to increase, but some companies actively participate in teaching management work of interest is not high, can provide exercise less jobs, the students learned during the internship can't use knowledge to solve practical problems, so it is difficult to show the application value of the cooperation between colleges and Let vocational colleges and enterprises form a community of interests. In addition, after the enrollment expansion in 2019, the education department put forward new requirements on the teacher-student ratio of art and design in higher vocational colleges, and the practical research results prove that the number of teachers in higher
vocational colleges does not meet the needs of practical education management. Although teachers in higher vocational colleges have been expanding in recent years, the teachers are obviously insufficient. In the face of this development trend, under the background of modern education reform, higher vocational colleges according to art and design courses, education contents and requirements of personnel training, integration by using the theory of advanced technology to build intelligent classroom, only in this way can integrate use of various teaching resources, truly show the important role of curriculum reform, the wisdom of classroom structure are shown in figure 1 below:[5.6.7]

![Diagram of wisdom classroom](image)

**Figure 1 Structure diagram of wisdom classroom**

The implementation of intelligent classroom teaching reform in higher vocational colleges and the optimization of talent training quality can not only respond to the double-high education plan, but also provide more outstanding talents for the development of the art industry. High-level applied talents, cultivating high quality high quality art design class classroom reform under the background of twin main direction, in the virtual technology, intelligent computing, big data, such as theory of universal access, education informationization has become the inevitable trend to the intelligent development, use wisdom art design class classroom orderly implementation of the reform of the work, can at the same time of enriching the content of classroom teaching, Fully mobilize students' interest in learning and provide effective basis for educational innovation and development in the new era. Therefore, this paper mainly discusses the intelligent classroom mode of high-quality art design under the double high background, and determines the classroom reform process according to the requirements of practical teaching.[8.9.10]
2. Method

2.1 Smart Classroom

The construction and promotion of smart classroom should follow the basic principle of student-centered, integrate information teaching environment and technical means, and carry out reform and innovation in accordance with the following steps. Combined with the structure diagram shown in Figure 2 below, it can be seen that smart classroom can fully arouse students' interest in learning, and the interaction between teachers and students presents diversified characteristics, which meets the requirements of higher vocational art design education in the new era.

Among them, classroom can realize personality push on the basis of data chemistry analysis. The data analysis of learning situation should be completed before the formal teaching, focusing on providing accurate information of students for professional teachers, and using the data form of dynamic presentation to help teachers set teaching objectives and tasks. The specific process is shown in Figure 3 below:
Figure 3 Personality push of data chemical situation analysis

In addition, professional teachers can also use the big data technology platform as shown in Figure 4 to monitor the whole learning process, collect students' learning data and behavioral data, and understand their basic needs, learning habits, learning psychology, etc. Compared with the traditional teaching mode, smart classroom skills provide accurate data information and can directly reflect the psychological changes of students, so as to provide effective basis for the adjustment of subsequent teaching forms and teaching progress.\[11.12.13\]

Figure 4 Architecture diagram of Big data technology platform

2.2 Classroom Reform

According to the design and application effect of smart classroom, under the background of double high school, the reform of art design class in higher vocational colleges mainly starts from the following aspects:

First, design preparation. Before class, the students passed the three-dimensional space construction method of the self-learning block of MOC College of Wisdom Vocational Education, completed the part of the integrated theory test of the course certificate, completed the three-dimensional design case collection of the relevant data block, and completed the preliminary
analysis and sorting of the collected cases. Teachers determine the key points and difficulties of the course according to the students' test results, and improve the teaching implementation steps, so as to teach students in accordance with their aptitude.

Second, design concept. Teachers demonstrate the case derivation process, students complete the derivation of design case data and put forward the problems in the process, think about the form characteristics and method basis of objects and space, and explore the design concept contained in it. Comparative analysis of the case, found the design concept of the difference, the form of similarity and particularity.

Third, design method. Through animation demonstration, the design method is summarized. According to the design method, using sketch master software, from easy to difficult, from simple to complex, explore the diversity of cutting. Students share their design works through the screen sharing in the smart classroom, and teachers give comments. In this part, try to use the new resources, new ideas, new methods, new means and new technology is a comprehensive reform of the traditional classroom, the traditional silent type, classroom into a question-and-answer dialogue type, speculative or even argue the classroom, students shift from passive learning to active learning, improve the students' ability of independent innovation.

Fourth, design and production. Students discussed in groups and combined model objects. Innovative thinking methods such as Hotan 12 method and 635 method were adopted to explore the optimized model combination form. Students show and explain, teachers comment. In this link, focus on the students' group cooperation. Cooperation is the way of being. Partnerships can make or break an organization. Team is also the most advantageous form of success and personal value in modern society. In this course, the design project will be divided into tasks, and multiple people will cooperate on a theme. A large theme group will be established first, and then the design group will be subdivided. Project cooperation is suitable for the characteristics of higher vocational students. Students often have high enthusiasm for the design of cooperative projects, their works are more perfect, the results are more obvious, and even achieve the unexpected effect.

Fifth, design and application. According to the excellent design cases in the design preparation, analyze and draw the design step diagram. Set high design standards for students and learn to think, analyze and solve problems like a master. In different design fields, the design rules are summarized, and the after-school special design homework is introduced.[14.15]

3. Result analysis

3.1 Reform Effect

First of all, students' learning efficiency is improved and their independent learning ability is enhanced. Design preparation uses online teaching to promote students' "independent learning". After the test of theoretical knowledge, it is found that students get a high score rate. The classroom teaching is student-centered, and the cultivation of students' learning interest and independent exploration ability is put in the first place.

Secondly, create a smart classroom, combining group discussion with independent exploration, so that students' innovative thinking is changeable. In the process of design and production, group discussion and heuristic methods are used to enable students to innovate a variety of ways of thinking. Establish a student-centered classroom teaching concept and construct a modern classroom teaching system. In view of the high innovative and practical characteristics of art design major in higher vocational colleges, it is necessary to strengthen students' practical ability and improve their innovative thinking ability as the starting point to organize classroom teaching. The students were able to clarify the design intention and demonstrate various combinations of forms through the software when presenting and explaining the design work.

Thirdly, design preparation and design application link establish a higher aesthetic standard to make up for students' aesthetic deficiencies. Case analysis and design application links provide students with award-winning design works and international classic design cases, so that students
start from the highest aesthetic standards for design reference. From the design methods and production links, it can be seen that the design methods students refer to are from the classic works of international designers, and they can make design changes by analogy.

At last, homework exhibition was organized after class, teaching evaluation was carried out, and students' self-confidence was improved. Select excellent works for homework exhibition, conduct teaching evaluation according to the exhibition situation, and score on site. Through the planning, design and implementation of the exhibition, the students have improved their ability to arrange the exhibition, kindled their love for their major and improved their self-confidence.

3.2 Development Trend

In wisdom class under the background of increasingly adept technology theory, higher vocational art design class classroom reform will be more and more quickly, practice teaching reform work can not only set up the teaching goal, let students acquire a sense of accomplishment and pride, and to expand the minds of students in learning to explore consciousness, improve the comprehensive level of higher vocational colleges in our country. Combined with figure 5 shows the wisdom of the classroom network structure analysis, the future of higher vocational art design class classroom reform from the education content, teaching environment, teaching techniques, teaching methods, etc. Through the deep exploration of the multiple perspectives, priority in accordance with the contents of the teaching goals and student demand, in order to create high quality system of higher vocational art design class teaching, We will cultivate more outstanding talents for the development of our art industry.

![Figure 5 Network structure diagram of wisdom classroom](image)

Conclusion

To sum up, in the steady development of social economy, the reform of art design class in higher vocational colleges based on the double high background and the strengthening of the training of theoretical knowledge and practical ability are not only new requirements put forward by the innovation of The Times, but also an important work that needs to be insisted on for a long time. According to recent years, higher vocational art design talents cultivation situation analysis, the traditional teaching mode has been unable to meet the national education policy, the students master the basic knowledge and practical skills and The Times, so the higher vocational colleges to after the integrated use of information technology means, the wisdom of building intelligent and diversification class, actively explore the new era of art design class teaching measures of training the talent, Learn from foreign excellent talent training experience, change the traditional teacher education management concept, in order to accelerate the pace of vocational art design class reform.
Reference


