Research on Multi-Dimensional Practical Teaching System of Art Design Major in Ming and Qing Dynasty Furniture Design Based on Sample Data Analysis

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Abstract. Aiming at the problems of weak course and poor teaching effect of furniture design major in Ming and Qing Dynasties, this paper puts forward the idea of constructing multiple practical teaching mode, and reforms the teaching of furniture design specialty in Ming and Qing Dynasties from the implementation of diversified talent training scheme, reform of teaching mode and construction of practical teaching system. This paper analyzes the current situation of Ming and Qing furniture design of art design major, and puts forward the multi-dimensional practice teaching system of art design major in Ming and Qing Dynasty furniture design. In this paper, 260 students of art design major in furniture design were selected as survey samples, and the satisfaction, pertinence and acceptance of multidimensional practice teaching in recent three years were compared and analyzed, and the results were discussed and analyzed. The research on the implementation method of multidimensional practice teaching in furniture design of Art Design Specialty was put forward, which provided a reference for the development of furniture design of art design specialty Security. The research of this paper has important practical significance for the further development of the two.

Keywords: Art Design, Furniture Design, Multi-Dimensional Practical Teaching, Teaching System

1. Introduction

With the development and progress of society, the traditional teaching mode of art design can no longer meet the needs of the market [1-2]. Therefore, we must actively explore the reform of practice teaching system of traditional art and design major. The purpose and starting point of establishing a multi practice education system of art and Design College is to reform the disadvantages existing in the traditional art education mode, strengthen the cultivation of social practice ability of art design students, and constantly improve their design practice ability and innovative consciousness [3-5]. In view of the current situation and existing problems of art design education mode, this paper studies the development strategy of art design education, so as to accurately define the status of art design discipline in higher education, and establish the corresponding professional positioning and discipline setting.
In recent years, more and more attention has been paid to the construction of multi-dimensional practical teaching system for art and design majors [6-7]. Based on the multi-dimensional art practice training and teaching system of art design related majors in Colleges and universities, colleges and universities must take the teaching guidance mainly to adapt to the needs of social development, follow the guidance training teaching mode of multidimensional art practice training talents, and constantly strive to cultivate a group of talents who meet the development needs of the society, Constantly strive to cultivate a group of art design professionals who meet the development of social needs, and constantly strive to improve the employment development ability and teaching creativity of students majoring in art design in Colleges and universities [8-10].

In this paper, the application of multi-dimensional practice teaching in furniture design is studied, and the actual situation of the influence of multi-dimensional practice teaching on art design is analyzed. The analysis shows that the application of multi-dimensional practice teaching system in art design major is insufficient. This paper establishes a multi-dimensional practical teaching system for art design major in Ming and Qing Dynasties. In the research, according to the actual situation in the process of multi-dimensional practice teaching, the teaching method of multi-dimensional practice teaching is optimized. The effective combination of the two can improve the teaching effect of art design major. Through the investigation and analysis of the data of multi-dimensional practical teaching, this paper believes that the use of multi-dimensional practice teaching can enrich the teaching mode of art design specialty, create more characteristic teaching scheme, and achieve win-win cooperation between both sides.

2. Art Design and Multidimensional Practice Teaching System

2.1. Art Design
Art design discipline is a professional practical design discipline which combines industrial technology with science and art. At the same time, it has the development trend of diversified education discipline direction, social practice demand direction and the combination of theory and practice teaching. There are still many contradictions between art design and single professional training mechanism. Practical engineering teaching also develops to the direction of engineering technology, art and material application. Therefore, it is urgent to carry out the research and innovation of teaching theory and the exploration of professional practice teaching on the construction of teaching theory system of teaching practice course of art design discipline in Colleges and universities. The strength and operability of art design determine the basic characteristics of art design related majors as applied art disciplines. Before the construction of the new practical physical education management system, we must deeply grasp the foundation of the practical physical education teaching management system, construct the basic principles and application value, and take certain strategies on this basis to build a perfect teaching system of art design.

2.2. Multi-Dimensional Practical Teaching System
Training mode of art and design major mostly focuses on the cultivation of professional skills, while the cultivation of innovative thinking, as the main indicator to measure the success of designers, and still has many shortcomings. Therefore, strengthening students' creativity and innovative thinking ability is one of the contents that art design education must pay attention to. In the system of practical physical education teaching activities, multi dimension refers to all kinds of practical sports teaching activities with multi activity types, multi activity places and multi subject roles. From pre-school to after-school, from inside to outside, from teachers' analysis of students' discussion to teachers' visiting students' practice, learning from the successful experience of colleges and universities at home and abroad, changing the bad traditional concept that practical physical education only depends on theoretical physical education in Colleges and universities, and constructing a theoretical system of practical physical education teaching in Colleges and universities with continuously optimized teaching structure, It runs through the whole process of practical teaching reform and theoretical
innovation in Colleges and universities. Teachers also actively advocate taking part-time jobs in large enterprises or schools to form an open social practice teaching and training system.

3. Investigation and Analysis on the Function of Multidimensional Practice Teaching in Furniture Design of Ming and Qing Dynasties

Statistical results show that multidimensional practical teaching has been playing an important role in furniture design of art design major in China. Compared with traditional teaching, multidimensional practice teaching has the characteristics of strong pertinence and great influence. Multi-dimensional practice teaching can replace a series of traditional teaching methods in furniture design of art design specialty, and enhance the teaching effect of furniture design of art design specialty.

In the research and analysis, this paper uses two ways of investigation and research, which are questionnaire and online question and answer. 260 students of furniture design major in art and design were selected as the survey samples. In the process of investigation, this paper found that both the new students and the past students are recognized by the multi-dimensional practical teaching mode. In this survey, we divided all the subjects into two groups by category. One group is the current design professional furniture design students; the other group of former design professional furniture design students, the comprehensive situation of multidimensional practice teaching is analyzed. The results are shown in Table 1. Based on the survey results of the two groups, the satisfaction degree of multi-dimensional practice teaching in furniture design teaching of art design specialty reaches more than 91%. The development of multidimensional practice teaching improves the diversified structure of furniture design teaching mode of art design major, and plays an important role in furniture design of art design major.

Table 1. Satisfaction survey and analysis of multidimensional practice teaching in Ming and Qing furniture design teaching of art design major

| Investigation items                  | Furniture design students majoring in design (%) | Previous furniture design students in design major (%) |
|--------------------------------------|-------------------------------------------------|-------------------------------------------------------|
| satisfied                            | 92                                              | 91                                                   |
| Quite satisfied                      | 6                                               | 7                                                    |
| commonly                             | 2                                               | 2                                                    |
| Hope to increase the promotion of multidimensional practice teaching | 94                                              | 96                                                   |

4. Discussion

4.1. Present Situation of Multidimensional Practice Teaching

In the process of deepening the reform of the cultural system, the central government has clearly put forward: "to promote the great development and prosperity of socialist culture, team is the foundation, talent is the key.". We should give full play to the important functions of personnel training and cultural inheritance of Engineering Colleges and universities, and strive to cultivate artistic facilities with persistent belief, good moral quality, innovative spirit and application value. We can start from the actual teaching situation; analyze some problems existing in the education of art design specialty, so as to find a breakthrough for opening up new teaching methods in the era of innovation.

(1) Professional atmosphere

Limitations of neglecting the cultivation of art and design talents are mainly reflected in the following aspects: emphasis on the cultivation of design talents. Some schools set up popular majors with high fees, so it is inevitable to be short-sighted and self-directed; in the oppressive value evaluation standards of science and engineering, the particularity of art discipline is often not
understood and respected; some schools adopt the syllabus and teaching mode of art colleges, which cannot reflect the characteristics of the project. To a certain extent, it limits the freedom of art discipline and destroys the creativity of art.

(2) Teaching operation

Practice teaching link of art design specialty is not clear, the formulation and quality of practice curriculum syllabus are ignored, and the practice mode and content are not scientific. In the process of practice teaching, it is impossible to combine the practice content with the classroom teaching content. The traditional teaching is unscientific, which also shows that the teaching method is single, the students' practice link is reduced, the practice class hours are greatly reduced, and the total amount of practice teaching is insufficient.

Figure 1. Comparative analysis of satisfaction, pertinence and acceptance of multidimensional practical teaching in recent three years

Figure 1 shows the comparative analysis of satisfaction, pertinence and acceptance of multidimensional practice teaching in recent three years. In order to further analyze the role of multi-dimensional practical teaching in the teaching of art and design major, the results are shown in Figure 2. As can be seen from Figure 2, the influence of multidimensional practice teaching is significantly higher than that of traditional teaching mode. The traditional teaching mode is not scientific, involving a single form, and the efficiency is not ideal. After the multi-dimensional practice teaching mode is popularized, the teaching effect is improved, and the teaching quality is also significantly improved. Through investigation and analysis, it is shown that the advantages of multidimensional practice teaching are greater than the disadvantages in the teaching of art design specialty. It is very important to popularize multidimensional practical teaching in order to achieve good results in art design teaching.
4.2. Research on the Implementation Method of Multidimensional Practice Teaching Mode

(1) Implement diversified talent training plan

According to the learning results, the knowledge types of learners are divided into four aspects: method, thinking, application and practice. The integration and subdivision of classroom learning knowledge content is the learning method and stage of learning technology principle. Application is to combine the theories and methods learned in modeling creation with aesthetic concepts to form a design scheme that can be put into practice. This is also the core ability that needs to be cultivated in the practice teaching system of design specialty. By using the characteristics of interdisciplinary, we should strengthen the communication and cooperation between different disciplines and specialties, and provide students with rich knowledge, imagination and creativity. Design problems can be solved through the knowledge transfer of art and aesthetics, and the knowledge structure of design problems can be solved by understanding design and creativity. Using computer and digital media as design tools to further express design ideas and cultivate basic design ability.

(2) Reform teaching mode

Tutors in the studio adopt the project teaching mode. How should the teaching mode of art design course change the traditional teaching mode of stylized and rigid classroom teaching. We believe that we can fully learn from the professional studio system and tutorial system of European and American art colleges. The tutor chooses to open his studio according to his major. Students and teachers can study in different design studios according to their learning interests, and carry out a variety of teaching modes of graduation design course learning according to their own research topics, topics or professional competitions. Guiding the construction project management of art studio is the most important part of the teaching mode of art design course in our school. It can promote the interaction and common progress between teachers and students. The teaching modes inside and outside the school complement each other. The cultivation of creative thinking and innovative ability is not based on classroom thinking. This is a comprehensive and imperceptible learning process. This single space is difficult to meet the needs of various teaching.

(3) Construction of practice teaching system

Enterprise project teaching. Enterprise project mainly refers to the enterprise design project introduced and undertaken. Its advantage is that students can fully feel the influence of time and place
constraints, give full play to their initiative and creativity, and solve the design problems raised by enterprises in the real market. Through the construction of a complete teaching project, cultivate the students' practical adaptability, creativity, team spirit and social practice innovation ability. The third is practical activity teaching. Through the classroom practice interactive teaching in the College of art and design, the ability of each student can be effectively improved. The forum will build a research and exchange platform for teachers and students to actively participate in China's socialist practice with the level of graduate students. The college has initially realized the effective interaction of teaching, scientific research and practice. According to the integration of the college's own comprehensive resource advantages, it undertakes the horizontal and spatial horizontal teaching design research projects, develops the design market at home and abroad, and improves the service level of teaching and scientific research achievements transformation which has certain influence in the social field.

5. Conclusions
In the research of multi-dimensional practical teaching system of furniture art design specialty in Ming and Qing Dynasties, this paper is mainly engaged in the application of multidimensional practice teaching in the furniture art design industry of Ming and Qing Dynasties. Through the research, it is considered that the multi-dimensional practical teaching system is an important part of furniture design in the art design industry of Ming and Qing Dynasties. Through the investigation of the past students involved in multidimensional practice teaching, they got the satisfaction evaluation of multidimensional practice teaching. In recent years, the rapid development of multi-dimensional teaching, breaking through the difficulties of multidimensional teaching, is at an advanced level at home and abroad. Through the analysis of the data, we can know that: multidimensional practice teaching enriches the education form of Ming and Qing furniture design of art design major, enhances the pertinence of treatment, and can improve the teaching effect of Ming and Qing furniture design of art design major. From the research and analysis results of this paper, we can know that in order to make full use of multi-dimensional practical teaching in art design specialty, we must combine the multi-dimensional practice teaching with the actual situation and teaching characteristics of Ming and Qing furniture design of art design major, pay attention to scientific introduction and reasonable arrangement, effectively formulate reasonable teaching scheme of Ming and Qing furniture design for art design major, and ensure the Ming and Qing Dynasties art design major The healthy development of furniture design. This research has achieved ideal results, and made a certain contribution to the application of multidimensional practice teaching in the Ming and Qing furniture design of art design major.

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