

# Research on Dimension Concept in Art Design Teaching

Wenwen Li

The Department of Art Design, Jiyuan Vocational and Technical College, Jiyuan, Henan 459000, China

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**Abstract:** in the art design major of ordinary colleges and universities, how to break the limitation between the teaching of art design dimensions and cultivate students' innovative thinking ability has always been a difficult problem. With the continuous change and development of the society, people have also put forward new requirements for art education. Learning methods should focus on diversity and sustainability. Based on the consideration of graphic dimension transformation, students can proceed with artistic design from the dimension, realize the dimension transformation, explore the basic teaching content and mode of dimension design, and define the talent training goal of artistic design education. For the art design major, the close combination of theory and practice in the professional teaching process will play an important role in training high-quality art design professionals to meet the needs of the society. Based on the rational thinking and analysis of the traditional teaching methods, this paper introduces the concept of dimension in teaching, cultivates the students' innovative consciousness and thinking ability, and summarizes the new teaching methods that are generally applicable to the design specialty.

## 1. Introduction

Our country's higher art design education originates from the traditional art education. It has been carrying on the routine of art education for a long time. In the process of professional teaching, it pays attention to the cultivation of students' personality creation and artistic expression ability, but ignores the cultivation of social practice ability [1]. With the continuous change and development of the society, people also put forward new requirements for art education. Not only should the learning content be interdisciplinary and comprehensive, but also the learning methods should pay attention to diversity and sustainability [2]. Compared with pure art major, artistic design has outstanding practical characteristics. The profession of artistic design carries out dimensional basic teaching research in artistic design. Through progressive training between dimensions to achieve dimensional exchange, curriculum cohesion can be better carried out [3]. The training of high-quality talents is a sacred duty entrusted to educational organizations by the times. High-quality talents are important leaders who walk at the front of the times and lead the Chinese nation to a more advanced world [4]. Only with deep professional knowledge and correct core literacy can a stable core foundation be established under the impact of various values. For art and design majors, the close integration of theory and practice in the professional teaching process will play a vital role in cultivating high-quality art and design professionals who meet the needs of society [5].

In today's society where economic globalization and regional economic integration are gradually accelerating, the advantages and status of college students are even more prominent, and they should adapt to the trend of world education reform to improve themselves [6]. China's extensive and profound traditional culture contains the wisdom and crystallization of various nationalities, has deep cultural value and ideological essence, and through continuous inheritance and creation, an important humanistic spirit in line with the development of the times has been derived. How to break the traditional teaching framework of basic design teaching in colleges and universities and explore modern design education ideas has become the focus of China's art design education reform at this stage [8]. Art design majors can be divided into one-dimensional, two-dimensional, three-dimensional, and four-dimensional design from the perspective of dimensionality. The main research direction of art design teaching is still in two-dimensional design and three-dimensional design. Here I try to use dimensional teaching in art design, and explore and construct a teaching

idea and teaching method that can transform the knowledge points of two-dimensional, three-dimensional design and other design basic courses into each other, step by step, and combine theory and practice. 9]. This article analyzes and analyzes traditional teaching methods rationally. Based on the theory of design education, it introduces dimensional concepts into the teaching, cultivates students' creative consciousness and thinking ability, and concludes a new teaching method that is generally applicable to design majors.

## 2. The Importance of Dimension Teaching in Art Design

In the field of artistic design, artistic design is an illustrative graphic visual symbol, a visual language form between words and fine arts, which expresses creative ideas by means of visual design forms. For all nations and countries, including our Chinese nation, culture is the core force that can rally the hearts and minds of the people. As the backbone of socialist construction, college students are constantly emancipated by the impact of western liberalism and their personal consciousness. As a result, college students' sense of self-identity is increasing. Contemporary college students pay more attention to their own emotional demands and pay more attention to their personal development and career development [10]. Graphics not only appear in two-dimensional form, but also can be used in architecture, packaging, network, film and television, animation. The transformation of dimension design is not only the interchange from one dimension to four dimensions, but also the transformation of graphic thinking and methods. The progressive training of dimension teaching provides students with a platform for practice. From the practice of dimension transformation, we can find and summarize the rules of graphics, and try new visual graphics according to the new visual learning consciousness. It is of great significance to strengthen the research on the teaching of dimension transformation of art design, to summarize the laws of graphics, to improve the theoretical knowledge of art design, to develop the thinking and space of images, and to explore the method of dimension design.

On the whole, the relationship between the three dimensions of the teaching process and the relationship between the three dimensions and the learning effect is assumed to be consistent with the observed data. The path coefficients of the path model are significant. As shown in figure 1, it is a path analysis model of effective classroom environment construction dimensions and learning effects.

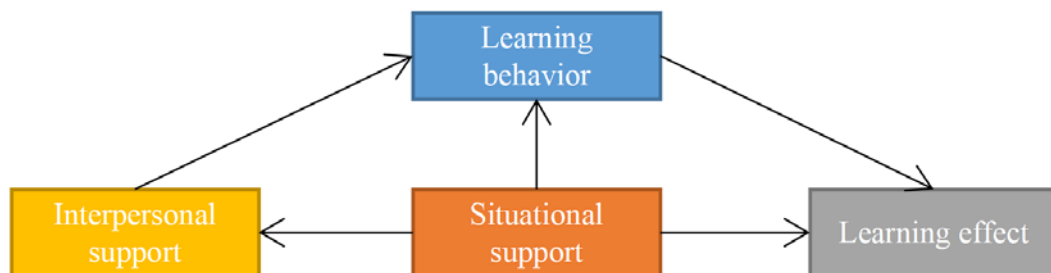


Fig.1 Path Analysis Model

The relationship between dimensional factors, volume space and modeling structure should be fully considered in artistic design. It is of great significance to combine graphics with dimensional changes, to strengthen students' understanding of dimensional teaching of art design, to strengthen training in a way of dimensional progression, to achieve cross-curricular integration and to cultivate students' innovative thinking ability. For a long time, art and design majors in institutions of higher learning all over the country generally follow the teaching framework from plane composition to color composition to three-dimensional composition, dividing two-dimensional design and three-dimensional design into relatively independent teaching modules and carrying out segmented teaching. It ignores the all-round design of graphics, the multi-perspective observation of dimensions and the understanding of the essence of graphics. It creates faults in dimensional design thinking and design creativity, which can easily cause students to misunderstand. In the process of realistic higher education, educators should focus on the cultivation of university students' thinking

and rationality, that is, the ability to think independently and be critical of rationality, so as to promote university students to understand the society and understand themselves correctly. College students should take socialist core values as spiritual guidance and thinking guide, work hard to learn scientific theoretical knowledge, and actively engage in social practice, cultivate rich professional skills and comprehensive literacy, and actively implement core values in social life. Each person's mental formation is different, reflecting the way people think, behave and think, and it guides us to do things.

### **3. Methods of Dimension Teaching in Art Design**

#### **3.1 To Cultivate Practical Teaching Team**

In order to realize the dimensional transformation, in the art design teaching, we can carry out the conversion exercises from plane to semi-stereo, plane to stereo, and stereo to plane, so that students can get out of the two-dimensional limitation, expand their thinking, and adopt different materials and tools for semi-stereo or stereo modeling. The theoretical basis of dimensional concept teaching mainly includes constructivism learning theory, Dewey's pragmatism education theory and situational learning theory. For the major of art and design, the first thing to do well in the construction of practical teaching team is to introduce the existing systematic theoretical cultivation consciously and systematically. As a base for cultivating practical and innovative talents that meets the needs of corporate and social development, it is necessary to train students to understand the market and develop market thinking patterns in order to improve students' ability to respond to the market and to operate. Through the comprehensive efforts of the above-mentioned multiple ways, it is possible to cultivate a high-quality, relatively stable, practical teaching team for art design. In art design, one dimension has only length, which is a relatively linear state. Two-dimensional has only length and width, which is a relative shape. Three-dimensional has length, width and height, which is a volume or space state. Four dimensions are three dimensions plus space-time features.

#### **3.2 Create Good Internship Conditions**

In dimensional teaching, a minimum standard evaluation system must be established to improve the design ability and promote the all-round development of teaching and research work on the basis of finding and solving problems. Due to the limitation of hardware conditions or the backwardness of teaching concepts and other reasons, it is not common to adopt this talent training mode in higher vocational art design. The transformation between dimensions includes not only design and technology, but also creative thinking and the transformation of teaching roles. It is a systematic and organic whole learning mode to realize the effective integration of knowledge from different disciplines. In order to fully mobilize the enthusiasm of students in learning, cultivate their creative thinking ability and promote their all-round development, students should not only be taught learning skills, but also be influenced by aesthetic experience in their aesthetic views and values [11]. In order to realize the transformation of dimensions, we can practice the transformation from plane to semi-solid, plane to three-dimensional, and three-dimensional to plane in art design teaching, so that students can get out of the two-dimensional limitations, expand their ideas, and use different materials and tools to deal with the semi-solid or three-dimensional modeling. Students need to understand and grasp the basic requirements of each link of the project and the key and difficult points of the whole process. Teachers only play the role of consultation, guidance and troubleshooting in the teaching process. After such a learning process, students' professional quality and skills have been greatly improved.

### **4. Conclusion**

In order to realize the transformation of dimensions, we can practice the transformation from plane to semi-solid, plane to three-dimensional, and three-dimensional to plane in art design teaching, so that students can get out of the two-dimensional limitations, expand their ideas, and use different materials and tools to deal with the semi-solid or three-dimensional modeling. As a

systematic project, the development of College Students' core literacy is a mission, a responsibility and a direction of university education in the new century. In the process of carrying out art education practice in Colleges and universities, colleges and universities should increase the excavation of cultural connotation and humanistic value of excellent art. The dimension teaching of art design is a teaching attempt of reform and innovation based on the original theory of art design. The dimensional teaching of art design emphasizes the integration of multi-discipline and multi-specialty, which is applicable to all design professional fields. The research on the teaching concept and method of graphic dimension design provides new ideas for the development of art design education. In teaching, teachers can train creative thinking methods of graphics, summarize their research results, reform and innovate graphics dimension teaching, and construct new dimension teaching concepts and teaching methods. Teachers should finally promote and realize the promotion and development of college students' core literacy by clarifying the teaching objectives of art education in colleges and universities, selecting teaching contents and teaching methods that conform to the development of college students.

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