

The Application of Three-Dimensional Interactive Method in Format Design Teaching

Li Si

Guangzhou College of Commerce, Guangzhou Guangdong 510000, China

ABSTRACT. *Layout design as core content of visual communication and graphic design is not only a basic course, but also one of the important courses to improve students' art conservation. In the past, spoon-feeding oral teaching cannot effectively enhance students' practical ability and even arouse their studying interest. For this reason, this article first starts with the importance of layout design teaching. Then it puts forward a multi-dimensional interactive teaching model, which is to arouse the students' participation enthusiasm, enhance the interaction between faculty and students and further improve the teaching effect by assignments, competitions, micro-lessons, specific as follows.*

KEYWORDS: *Three-dimensional; Format design teaching; Application*

1. Introduction

Three-dimensional interactive teaching is the combination of task-driven, competitions and micro lessons teaching to form a multi-dimensional interaction form, enhance the interaction between students and classroom instruction, and improve the passive learning in the past. In recent years, with the rapid development of China's market, theoretical and practical talents have been recognized and concerned by the market. While the traditional design curriculum teaching still adopts the indoctrinated teaching way that students are learning passively based on the content that teachers explain. It is impossible to practice students' practical ability. As the core of design specialty, layout design can not only cultivate students' basic skills, but also enhance their aesthetic and design ability. Judging from the current situation, there are some certain similarities between layout design teaching and other design disciplines, which is more emphasis on theoretical knowledge learning, ignoring the practice education. There is no comprehensive cultivation of students' practical ability. In this case, it has been an inevitable demand to integrate the three-dimensional interactive teaching method into the layout design teaching, aiming to effectively break the previous teaching mode. To strengthen the cultivation of the comprehensive ability of talents.

2. The Importance of Layout Design Course Teaching

As one of the groups concerned by the current society, the demand for art design talents in many fields increases a lot. Layout design is the basic content of design major that can affect students' professional level and bring direct influences of their aesthetic. Based on the previous work experience, the author mainly explores the significance of layout design teaching, as follows.

Firstly, in the process of layout design teaching, as a connecting teaching mode, it has a positive effect on the realization of the teaching goals of art design specialty. In the teaching process of art design major, the basic contents of layout design teaching conclude "flat composition", "colour composition", etc. These basic courses are important factors to guarantee the success of layout design teaching. Excellent teaching mode of layout design can not only arouse students' interest in learning, but also cultivate their design ability and design ideas, integrate fonts, graphics and other factors, so that students' design level can be greatly improved.

Secondly, layout design is the comprehensive form of design skills and artistic aesthetics ability, which not only pays attention to the cultivation of design ability, but starts from students' learning ability and learning habits. So that they can master much layout design knowledge, and finish layout design work independently. At the same time, it can help them grasp professional layout design skills and improve their layout design level. What's more, it lays the foundation for students to study and work in the future. Meanwhile, through the integration of various design elements into the layout design teaching, which can sufficiently integrate the independent design elements in the layout design to show visual beauty and improve the students' aesthetic ability. In the process of layout design teaching, it is necessary to integrate design aesthetics and aesthetic rules, let the students design corresponding works according to their own imagination, reconstruct design elements, make use of creative mode to express, and cultivate students' aesthetic and creative ability.

Finally, by carrying out layout design teaching, we can expand the students' design ideas and cultivate their good design ability. In the current social background, the demand for art and design talents is increasing as well as the demand for composite talents. Layout design combines traditional visual communication, graphic design and multimedia technology. Through the analysis of classic and social needs, more design experience can be accumulated. Have a deep understanding of current packaging design and web design; master the cutting-edge information of layout design, expand students' design thinking, let students develop good design ability, improve students' thinking and creativity, and provide help for students to develop in the future.

3. Common Problems in Layout Design Teaching

(1) Lack of pertinence in teaching and single teaching method

As far as the current social development is concerned, China's colleges and universities have fully realized the necessity of layout design teaching, and have

carried out reform and innovation in combination with the requirements of education system reform. However, the quality of teaching skill has not achieved ideal results, and the students' comprehensive quality needs to be improved. First of all, the lack of pertinence in the setting of teaching objectives makes the guiding role of objectives unable to play a full role, which hinders the improvement of the teaching level of layout design. Secondly, the existing layout design teaching method is single, and the targeted teaching is not carried out according to the teaching requirements of layout design. The realization of teaching activities does not take into account the actual situation of students, and the training role of layout design teaching curriculum can not be brought into full play. Finally, most schools pay too much attention to art teaching and ignore technical teaching. In the process of layout design teaching, some teachers pay more attention to the cultivation of students' artistic literacy, hoping that students can create some works with strong artistic characteristics, but they do not pay attention to the improvement of students' technical level, which has a direct impact on the cultivation of students' comprehensive literacy [2]. Therefore, teachers need to combine with the development of the times, properly innovate and reform the teaching methods of layout design, scientifically formulate the teaching plan of layout design, and improve the teaching effect of layout design.

(2) Poor curriculum level

As a course with many levels, layout design teaching, even in the current education process, is a relatively advanced subject for students. It is so difficult for students to learn. In the process of layout design teaching, some teachers are lack of thinking about the individual differences of students, and blindly adopt the non-difference teaching method, which makes students unable to follow the pace of teachers in-depth learning and affect the final teaching results.

4. Layout Design Teaching Based on Three-Dimensional Interaction Method

According to the teaching characteristics of layout design, which summarize and understand the corresponding teaching tasks. In the limited teaching time, we should adopt task-driven teaching method. Information technology is used to strengthen the communication between teachers and students. By holding competition activities regularly, we can cultivate students' comprehensive quality and guide the successful realization of layout design teaching objectives.

(1) Task driven

Students' learning activities should be fully combined with the teaching tasks. By using exploring questions, students can be guided to learn independently. By creating a good learning environment for students, so that students can practice themselves independently according to the tasks arranged by teachers, and students can master the initiative of study. Therefore, in the course of basic exercises of layout design, it is necessary to create corresponding teaching situations for students. Firstly, by arranging students to design resumes, that is, layout text arrangement, to cultivate students' design ability. According to the student's practice, summarizing

the learning experience, especially for the design graduates, we should design a resume that shows their own level. The layout of resume is generally designed by combining words with pictures. Through the whole text information, the relationship between the words is clarified. The important information is highlighted and the integrity and cleanliness of the whole page are guaranteed. This is also the basic skill that the students need to master in task design. Secondly, The design of exhibition board is the layout of graphics and text Under the guidance of the above tasks, students are arranged to carry out graphic image design, and according to the professional situation of the students, realize the panel design related to their profession . The display panels are usually used for publishing and presenting information on the plate-shaped. Combined with the professional design features, the exhibition panels are used to display the works. It contains how to arrange the pictures and the texts of the works scientifically. In the design process, it is necessary to comprehensively think about the style of the works. The design director provides guidance[3]. Finally, personal work collection design, that is, layout comprehensive arrangement. The collection is essentially a book design category, which contains a lot of layout content in the design. In the course of designing the portfolio, it is necessary to integrate the structure framework, display the type of the work and the corresponding text, and determine the style. Combine the layout design requirements, determine the scale of the portfolio, and then design according to each spread, from the local to the whole, to ensure the unity of form and content. As a comprehensive practical training task, the personal portfolio can provide support for students to display their works in the future

(2) Competition mode

The first phase of the task is mainly to lay the foundation for the basic exercises, while the second exercise is to use the competition to improve the students' comprehensive ability. For instance, students are regularly assigned some advertising innovation design competitions. As a result, each proposition is designed with posters. In the specific design process, it mainly includes two aspects. First, the basic principles of poster design, and secondly, the students' design thinking ability. In course of competition design, students should design according to the corresponding propositions. that is, according to the design style determined by the students, integrate the overall content, and if necessary, need to carry out graphic design to ensure the rationality of color matching and select the appropriate font model. In the design process, teachers need to strengthen the cultivation of students' autonomy, exercise students' ability to cope with propositional design, and improve students' design thinking consciousness [4]. After the design is completed, the student design work needs to be involved in the draft activity, allowing students to recognize the metrics of good design. Use the competition method to improve students' comprehensive ability, so that the design ability can be applied to the professional field to improve the professional level of students.

(3) Developing micro-teaching through information technology

Because in the process of layout design teaching, the knowledge fields involved are extensive, and the difficulty level in each field is different, the design process is

relatively cumbersome. Teachers need to adopt the teaching methods such as MOOC and realize the transformation of the layout design teaching curriculum, including the layout design. The various knowledge points are refined to highlight the key points and difficulties of teaching, so that they can be fully integrated in the interesting content, so that the teacher design teaching mode gradually changes the teacher as the main body to take the students as the main body, and comprehensively cultivate students' practical operations. Ability and learning literacy. In the process of layout design micro-teaching, the course needs to be divided into three parts. First of all, in the first 10 minutes, the basic content should be explained to the students, which includes the teaching focus and planning goals, and guide students to think. The second is the flipping stage, which is often built in the first stage when the students' interest in learning is fully mobilized. The students are arranged to watch the teaching videos, and the teachers answer questions according to the students' learning situation. In the process of flipping, teachers need to observe the learning situation and dynamics of each student, and combine the learning situation and ability of different students to achieve layered teaching [5]. Finally, before the class, through the application of Internet technology, the layout design teaching can form the proposed teaching process such as pre-class interactive interaction, class explanation interaction, and after-school tutoring interaction, which breaks the limitations of traditional teaching and prevents students from receiving time, Factors such as geography and so on, independent learning. In the process of layout design teaching, teachers can apply computer technology to build grade score system assessment standards, and form a diversified teaching pattern through human-computer interaction to improve the overall layout design teaching effect.

5. Conclusion

All in all, from the perspective of layout design, it has the characteristics of a part of application and a large coverage area, which plays an important role in the future development of students. In the process of layout design teaching, the teaching methods adopted are more diverse, and cannot be limited to one teaching method. It is necessary to fully combine various teaching modes to form a three-dimensional teaching pattern, and strengthen teaching interaction and enhance under the influence of information technology. Teaching effect. In order to cultivate students' good practical ability, multitask exercises should be regarded as basic, and students should be given regular competitions to train students' design ability. In the teaching process, the various links should be fully integrated, and the teaching should be guided in this way. Not only master the professional layout design skills, but also train students' comprehensive ability, improve students' layout thinking, and lay a good foundation for students' future development.

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