

Application of Digital Sculpture in Ceramic Teaching

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Abstract: with the continuous progress of society and economy, there have been many achievements in the research of science and technology. People's daily life, work and scientific research have been affected by digital technology. And ceramic art is also affected by digital technology, especially digital engraving. Digital sculpting applications will fully sculpt the artistic expression of sculpture art design, enrich the expression form, form, and expression of ceramic art, and expand the thinking of designers to create more artistic ceramic works. Nowadays, digital engraving has been applied to the teaching of ceramics, which has promoted the continuous improvement of the teaching effect of ceramics. However, there are still many problems in digital engraving in ceramics teaching. These problems eventually make it difficult for ceramics teaching to use digital engraving technology. Following. This article studies digital sculpture in ceramics teaching, discusses and analyses the problems that arise, and puts forward corresponding strategies and suggestions, which can ultimately promote the final effect of ceramics teaching.

1. Introduction

Through the continuous development of digital technology, people's daily lives and work fields have been greatly affected, and they have also been affected in the teaching field. Digital technology promotes richer means of artistic creation, which can realize art forms that could not be realized in the past through digital technology. In ceramic art, the use of digital sculpting can use digital sculpting to show previously unachievable ideas. Therefore, the use of digital sculpting for teaching in ceramics has a very important impact, motivating students to learn new technologies. Applied to the creation of ceramics. However, there are some problems in the process of applying digital carving to ceramic teaching at present, which leads to the current situation of teaching efficiency decline. Therefore, this article studies the application of digital carving in ceramic teaching in order to help ceramic teaching to have a higher teaching effect level.

2. Digital Engraving Overview

Digital engraving has a short development time and a late start, but it has developed extremely rapidly and has become an irresistible trend and trend. The number of digital engraving software has been increasing, and its functions and quality have also improved considerably. It can be used in different industries. Digital engraving technology has successfully changed the work flow of ceramic design. Digital engraving technology has colour drawing and modelling functions. The existence of these functions has prompted designers to reverse their creative thinking and urge designers to change their creative thinking. Time and thinking are placed on the design of ceramics [1].

Another name for digital engraving is called digital engraving. It uses high-level digital design software and uses computer modelling to carry out engraving. It uses 3d printing and other technologies to rapidly shape it. The current digital engraving technology has initially formed a relatively complete creative chain, prompting more works that cannot be completed by hand to be realized through this technology [2].

3. The Importance of Digital Sculpture in Ceramic Teaching

3.1 Improving Students' Modelling Ability and Artistic Accomplishment

Digital sculpting itself does not have a painting function. Therefore, in the process of learning and creating, students need to be able to master their most basic creative processes and principles. They must also have basic art knowledge and cultivation. This requires students to continuously improve self, motivating students to learn the modelling ability and artistic accomplishment that match the digital engraving technology. At present, there are some students whose modelling ability and artistic accomplishment cannot meet the requirements of flexibility and full application of digital sculpting technology. In this way, they cannot create better works, and they can't complete the teaching goals. Therefore, students need to be able to improve their artistic literacy and strengthen their modelling ability in various ways, so that they can flexibly use digital engraving technology [3].

3.2 Reverse Teaching Concepts

In the traditional ceramic teaching concept, the teaching content is relatively single, and students are required to fully remember this knowledge. Teaching is considered to be a process of accumulated knowledge. It is more difficult to guide students from theory to practice and presents a kind of “The teaching characteristics of “cracking duck”, “procedural” and “single”. After adding the digital sculpture technology, it can reposition students and teachers in teaching, and encourage students' participation, initiative, and enthusiasm for learning [4]. In addition, due to the introduction of digital sculpture technology, in the process of teaching content design, it must be able to strengthen its connection and increase the content of inspiration, so that students can participate as much as possible in the course learning, the students explore and solve problems The ability level has been continuously improved, and the emphasis of teaching has been on the cultivation of students' creative ability and artistic appreciation ability. Promote the ceramic teaching can be separated from the traditional and singular teaching methods, and further realize the diversified and diversified teaching through the digital sculpture technology and ceramic related principles and the total principle [5].

3.3 Improving Student Learning Interest

Digital engraving technology is a new technical means, which can help students to improve their interest in learning after it is introduced into ceramics teaching. Digital engraving technology is based on numerical control processing. Traditional ceramic design is basically manual in the process of making physical objects, but the manual production method will have some defects. And through digital engraving, software can be used to build models on the computer through design drawings, and such models can be sculpted by digital engraving equipment. The efficiency and accuracy are greatly improved. Students can use this technology to reduce errors and errors. Error, and the technology is highly practical, and students can fully participate in it, increasing their own interest and participation in learning, and mobilizing students' enthusiasm for learning [6].

4. Problems Existing in the Application of Digital Sculpture in Ceramic Teaching

4.1 The Content of Digital Engraving Technology is Not Closely Related to Teaching

The existence of digital engraving technology provides a new way and space for ceramics teaching, but the teaching content of digital engraving technology is lacking in some schools. Moreover, in the combination of digital engraving and ceramics teaching, the knowledge of digital engraving itself is fully explained, but the method of combining ceramics and digital engraving cannot be systematically and scientifically explained. The curriculum's knowledge framework, digital sculpting techniques, and ceramics teaching were not fully connected and integrated, resulting in less emphasis on the curriculum.

4.2 Students' Creative Ability is Low

Because of novel techniques such as digital engraving, students continue to inspire their own interest in learning, and they pay more attention to this. However, the content of the teaching is lacking in substance, causing the course content to be basically in the form. In the design of related courses, the innovative application of digital engraving in ceramics and the improvement of practical ability of practical use of digital engraving have become one of the teaching goals. However, when the application of digital engraving technology in ceramics teaching is being carried out, the teaching goals and the key points are disconnected. Basically, in practical teaching, the key content is focused on the theoretical knowledge teaching, and the cultivation and application of practical skills. The ability to cultivate digital sculpture is relatively lacking, which is out of the true educational purpose and direction of ceramics teaching. Such singular and one-sided ceramic teaching has adverse effects on students in the process of applying digital engraving [7]. In addition, in the course of the explanation, the teacher paid too much attention to the form of the course and the teaching of the theory. During the teaching process, the theoretical knowledge in the textbook was emphasized, and the practice course of digital sculpture was introduced into the teaching of ceramics. As a result, the application of digital carving in ceramic teaching is not sufficiently relevant. The inability to translate the students' interests into the substantive effects of learning ultimately leads to a poor practical application of teaching. For students, it is not possible to sustain the acquisition of knowledge, and it is not conducive to learning the application of digital engraving technology in ceramics and related methods in principle [8].

4.3 Application Countermeasures of Digital Carving in Ceramics Teaching

In view of the problems in the current application of digital engraving technology in ceramics teaching, we must improve it from various aspects, further apply digital engraving technology to ceramics teaching, and change the teaching concept, and be able to use ceramics. Teaching mode is changing.

4.4 Increase the Connection between the Design of Ceramic Courseware Content and Teaching

The first is to address the lack of scientific and systematic problems in the current application of digital engraving technology in ceramics teaching. Teachers must fully understand and recognize the teaching purpose and outline according to the teaching focus, and effectively maintain the correctness in actual teaching. Direction of training goals. According to the student's own professional characteristics, the advantages and characteristics of digital engraving can be further combined, and the digital engraving technology can be combined in the ceramic teaching course content, and practical examples should be listed to enable the elements to be carried out in its unit structure. Changes that promote teaching activities and plans to meet the goals and plans of ceramics teaching [9].

The second is to reverse the phenomenon of poor relevance and relevance of teaching content. Teachers must combine the teaching focus and the implementation steps of teaching activities to integrate the relationship, hierarchy, and progressiveness between teaching contents. Improve and use it as a prerequisite to compile teaching content and courseware, and introduce appropriate digital engraving technology, which can fully integrate this technology with ceramics, and build a reasonable and perfect teaching function [10].

Third, in the process of compiling the course teaching content, we should be able to use digital sculpture technology as the main teaching content of ceramics teaching, and carry out targeted teaching based on students' interests, personal emotions and development characteristics, and further be able to teach the situation and teaching environment are enriched and enriched. According to the students' interest and enthusiasm for learning, the application ideas and processes of digital sculpting technology in ceramic teaching were changed, and students were able to fully combine the relationship between knowledge points and exercise problems in such an environment, and build up with digital Knowledge system for the application of carving technology in ceramics

[11].

4.5 Strengthen Students' Ability to Apply Digital Engraving Technology

The application of digital sculpting technology in ceramic teaching can fully cultivate and train students' creative ability, but there is a phenomenon of imbalance between practical teaching and theoretical teaching in the teaching process. Some teachers place too much emphasis on theoretical courses. In the teaching system, theoretical courses are much larger than practical courses, and students cannot apply them to practical practice after learning the theory of digital engraving technology [12]. Therefore, it is necessary to increase the proportion of practical courses, so that practical courses and theoretical courses can complement each other. In addition, students' innovative ability should be improved. By guiding students to strengthen their creative ability and creative ability, the teaching purpose, content, thinking and focus of digital sculpting technology in ceramic teaching should be clarified to further promote students' ability in the learning process. The application of digital engraving technology in ceramics is clarified, which further urges students to acquire more creative abilities and apply them to actual creation [13].

5. Conclusion

With the advancement of science and technology, digital engraving and other technologies have been born, which provides a better way for current artistic creation. Digital engraving technology can also be applied to ceramics, and the variety of ceramic shapes and forms Creation has an important impact. The application of digital engraving technology in ceramics teaching can effectively enhance students' interest and enthusiasm for learning, and promote students to have more possibilities and innovation when creating ceramic works. This paper studies the application of digital carving in ceramics teaching, finds its role and value, and proposes corresponding application methods, which can finally provide a better theoretical basis for current ceramics teaching.

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