Research Article

Exploring the New Mode of Teaching Computer-Aided Environmental Art Design Courses

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Environmental art design course is the main direction of practical teaching. Therefore, the teaching reform and practical research of environmental art design based on CAD have been carried out. Innovative environmental art design courses, taking into account the differences of student groups, formulate the teaching methods of introductory courses, formulate the comprehensive topics of curriculum design, expand the knowledge base, improve the professional curriculum system, and strengthen the horizontal connection between curriculum teaching and computer design to meet the diversified needs of different student groups. Environmental art design also requires that before formal construction, with the help of computer-aided function, establish architectural drawings and analyze the rationality of each construction process. In view of the current situation and further development prospect of computer-aided application design, designers should improve the application level of graphics software. This paper is mainly committed to optimizing environmental art design teaching through computer, making full use of artificial environment design, improving the efficiency of computer performance technology, avoiding too single final design effect, so as to enhance the appeal of ecological art and meet people’s aesthetic needs.

1. Introduction

CAD, as a practical professional course, actually uses theoretical knowledge to solve practical problems so that only the practical skills of students are improved [1–3]. The environmental art design course has some connection with environmental design construction, environmental design drafting, and environmental design construction.

Although colleges and universities have implemented different degrees of reform for environmental art design courses, and the actual teaching finds that most students are still unable to design environmental design drawings independently after graduation or even a few years, according to the analysis of front-line professional teachers on the current situation of teaching professional courses, it is believed that the current teaching contents of colleges and universities have the problem of disconnection with social development, teaching resources, and the lack of timeliness of information obtained, although textbooks and teaching materials are constantly adapted and new technologies are constantly introduced, they are not yet popularized when teachers carry out teaching [5]. Teachers cannot use computer technology or a variety of drawing software to provide students with professional teaching, students still follow the traditional learning concept in learning, with low innovation and lack of targeted teaching methods and ideas, the arrangement of practical courses and theoretical courses is not reasonable, and the design of the teaching system of the course cannot be completed and most students have strong design theoretical ability, but are unable to connect with social demand positions [6].

In the process of carrying out computer-aided environmental art course teaching development, the understanding of the shortcomings and deficiencies of traditional teaching courses is important [7]. The traditional single teaching, mainly relying on the teacher’s demonstration, through the item-by-item operation of each tool command in the design software, requires students to follow the teacher’s demonstration order to operate again, and this
teaching mode is too mechanized [8]. Therefore, the course design should change the single teaching process, the teacher in the process of course explanation, not only focus on the operation of the software but also need to achieve good teaching effect through the adjustment of the operation process, and establish a close connection between technical design and other subjects to ensure the coherence of teaching links [9]. While improving students' professional and technical skills, focusing on the overall expression of artistic features, there is a problem of lack of relevance of teaching examples in teaching design and practice, innovate traditional teaching methods, and organize several teaching contents to guarantee students’ enthusiasm and initiative [10].

Targeted analysis of various types adheres to the skills training as the basis, theoretical explanations as an aid, to optimize the traditional service concept through the command design, and smooth and natural mastery of basic technical operations [11]. Combined with the drawing instructions issued by the teacher to edit the software interface, computer-aided environmental art design course, to focus on the drawing software knowledge, in the diverse design principles into environmental psychology, engineering, lighting design and a variety of architectural principles, through the comprehensive display of effect drawings, to improve the artistry of the course design [12].

Teachers need to take the improvement of students’ aesthetic concepts and professionalism as the basis, and through the effective application of computer drawing software, to ensure that designers can bring into play their creative and imaginative abilities to achieve more desirable design effects [13]. The establishment of the teaching structure can graduate who enter the workplace should be proficient in applying computer drawing software to ensure that designers can bring into play their creative and imaginative abilities to achieve more desirable design effects [13]. The establishment of the teaching structure can graduate who enter the workplace should be proficient in applying computer drawing software to ensure that designers can bring into play their creative and imaginative abilities to achieve more desirable design effects [13]. The establishment of the teaching structure can graduate who enter the workplace should be proficient in applying computer drawing software to ensure that designers can bring into play their creative and imaginative abilities to achieve more desirable design effects [13]. The establishment of the teaching structure can graduate who enter the workplace should be proficient in applying computer drawing software to ensure that designers can bring into play their creative and imaginative abilities to achieve more desirable design effects [13]. The establishment of the teaching structure can graduate who enter the workplace should be proficient in applying computer drawing software to ensure that designers can bring into play their creative and imaginative abilities to achieve more desirable design effects [13]. The establishment of the teaching structure can graduate who enter the workplace should be proficient in applying computer drawing software to ensure that designers can bring into play their creative and imaginative abilities to achieve more desirable design effects [13]. The establishment of the teaching structure can graduate who enter the workplace should be proficient in applying computer drawing software to ensure that designers can bring into play their creative and imaginative abilities to achieve more desirable design effects [13]. The establishment of the teaching structure can graduate who enter the workplace should be proficient in applying computer drawing software to ensure that designers can bring into play their creative and imaginative abilities to achieve more desirable design effects [13]. The establishment of the teaching structure can graduate who enter the workplace should be proficient in applying computer drawing software to ensure that designers can bring into play their creative and imaginative abilities to achieve more desirable design effects [13]. The establishment of the teaching structure can graduate who enter the workplace should be proficient in applying computer drawing software to ensure that designers can bring into play their creative and imaginative abilities to achieve more desirable design effects [13]. The establishment of the teaching structure can graduate who enter the workplace should be proficient in applying computer drawing software to ensure that designers can bring into play their creative and imaginative abilities to achieve more desirable design effects [13].

The main reason for students' lack of creative thinking is the lack of confidence in the originality of environmental design and the lack of creative inspiration in completing the design tasks assigned by teachers, and the presentation of some valuable creative points is the basis for ensuring the quality of environmental design. Therefore, teachers need to guide students to think about environmental art from different perspectives, not to build spaces entirely according to their personal preferences, but to develop perfect design solutions combined with the main needs of users, to guide students to be innovative and self-transcendent, and to lay a strong foundation for the effective application of creative design thinking, therefore, original thinking training needs to be integrated into traditional course design. Hand skills are the basic skills necessary for environmental art designers to master, therefore, teachers need to cultivate students' innovative thinking development ability, ensure the design quality of environmental art solutions, and help students develop their pioneering thinking.

2. Related Work

Environmental art design is a highly practical and complex comprehensive discipline, which involves many disciplines such as architecture, design, and art. Environmental art design is a human-centered design discipline and creates an ideal spatial environment to serve people’s social and family life. However, as a new industry, environmental art design has not yet established a characteristic teaching system. It should be combined with practical, innovative thinking, from the teaching mode, curriculum system, teaching training objectives, teaching content, and other aspects of a comprehensive, systematic innovation, highlighting the comprehensive quality of training for students, strengthen the practical nature of professional teaching.

To comprehensively improve the effect, combine the current social development with the specific requirements of environmental art design, cultivate designers with high professional quality and strong artistic cultivation, and ensure the stable design. In the process of teaching and design to improve students’ artistic aesthetic ability, master complex environmental art performance techniques, combined with the specific construction environment to develop a reasonable architectural rendering, to solve the current problems and deficiencies in computer-aided environmental art.

The following analysis of the common CAD in environmental art design: AutoCAD, 3D MAX, Photoshop.

2.1. AutoCAD. The effective application of AutoCAD can ensure that the traditional two-dimensional drafting, based on the completion of the basic three-dimensional design tasks, is a more widely used CAD drafting software, and AutoCAD as the mainstream drafting technology has obvious design advantages in the effect of the drawing.

Designers for environmental art design drawing process, the accuracy of the data will affect the final artistic efficiency and overall design quality, if the drawing results are not accurate, it is likely to cause engineering rework, extend the design period and cause a waste of resources [17].

The outstanding advantage of AutoCAD application is the powerful drawing ability, and its application can ensure the quality of drawing and the accuracy of the final data, the application of Auto CAD software in environmental art design, covering a large number of projects, including interior design of AutoCAD [18].
The interior design is an important part of the interior environment, and the functional characteristics of the AutoCAD software and the requirements of the environmental atmosphere need to be analyzed before the design of drawings, and the planning tasks need to be completed in conjunction with the relevant design standards [19]. As an important element of the spatial environment, the interior environment design needs to analyze the existing performance characteristics of the spatial environment and clarify the special characteristics of AutoCAD software.

Environmental art design is considered from many aspects such as artistic value, functional value, and aesthetic value. It integrates spiritual factors in the process of interior environment design, adjusts the architectural structure to ensure the overall style of the interior environment, and creates a good environmental atmosphere [20].

2.2. 3DMAX. The effective application of 3D MAX software in environmental art design can create a good environmental animation display effect, and 3D MAX as animation software, with powerful design functions as a support, to complete structure settings, the basic configuration requirements are low, in the system to install the production plug [21].

The system structure is set up on the basis of the PC system, which requires low basic configuration, and the production plug-in is installed in the system to ensure the functionality of the software process, and the role animation production function of 3D MAX software is used to carry out the stacking of modeling steps to improve the flexibility of the production of design models and to complete the basic animation quality requirements [22].

3D MAX is also an important program in the production of games, films, and videos and has a high value in architectural design. 3D MAX aids work in environmental art design to show a more detailed interior environment and the outdoor effects of each element added to the production of environmental animation [23].

2.3. Photoshop. The application of Photoshop software can ensure the authenticity of scenery and creates a good environmental art atmosphere. After finishing the drawing of the design effect, the staff needs to post-process the various processes of the effect with the help of Photoshop software, which has powerful environmental image processing capabilities [24].

Many digital images in the rendering are composed of pixels, using Photoshop’s processing technology to edit and modify the quality of the image, using more advanced drawing tools, and strive to improve the picture editing effect. 3D MAX rendering is only a rough data pattern, in the process of real scenery design, 3D MAX is difficult to get the desired technology Photoshop supports the production of real scenery to create a good environmental art atmosphere [25]. Among the elements in the interior space, such as plants and furniture, can be added to the effects in the form of real images with the help of Photoshop software.

3. Methods

The teaching system structure of environmental art design course at this stage is shown in Figure 1.

Compared with the same majors abroad, China’s environmental art design majors started late, and most colleges and universities have only opened environmental art design majors in the past ten years. At present, the basic courses and professional courses of environmental art design majors in our universities are still relatively weak, and there is a serious disconnect phenomenon, and the research of environmental art “professional theory” is very lacking. At present, the teachers of environmental art majors in China’s universities are not strong enough, and the teaching managers also lack attention to the professional theory, which leads to a serious lack of design guided by “professional theory”.

Traditional art and design education is influenced by examination-based education, and although it has a strong systematic teaching mode, it is far from foreign countries in terms of creative cultivation. Other teaching links in the classroom lack new ideas and are too programmed, and the teaching content is too limited and single, and there are problems in the teaching process that emphasize skills but not thinking, performance but not creativity, and results but not process.

To improve the teaching situation, an environmental art design teaching unit based on CAD is proposed in Figure 2. According to the actual needs of teaching, we design the training objectives of environmental design and design talents suitable for students’ development, integrate the requirements of schools, professional courses, teachers, and society for students’ learning, establish a teaching organization structure with deep interdisciplinary integration, provide a teaching support platform for professional courses, further enhance the communication between students and teachers, improve the framework of professional courses and teaching system, use CAD technology, propose targeted teaching for different student groups, improve students’ practical application ability, improve students’ entrepreneurship and education development capital chain, enhance the degree of adaptation between students and social demand positions, and transform the traditional closed indoctrination teaching without delay.

3.1. Innovative Teaching Thinking of Environmental Art Design Course. Through the analysis, mastering the necessary innovation ability and spatial appreciation ability is the main goal of the course teaching because the students at the beginning of the school year have less knowledge of environmental design, and students come from different regions, spread the social and cultural differences, and understand different levels of environmental design culture. To respond to the requirements of the information age, CAD technology is introduced, and students are instructed to use computers to analyze environmental design drawings in detail, and overview courses are arranged to unify students’ cultural communication channels, such as “History of the origin of environmental design in China and abroad”, “Introduction
to environmental design based on the cultural characteristics of local environmental design, students are reshaped from the history of regional environmental design to the formation of the environmental design industry at many levels, establishing a correct cognition, guiding students to gradually form an independent environmental design thinking, and improving their innovation ability and inspiring them to the course will help students to develop an independent environmental design thinking, improve their innovation ability, and inspire them to design spatial environments.

Switching the traditional teaching thinking and respecting the differences between student groups, in addition to arranging the necessary computer drafting courses, students should also strengthen their ability to express their environmental design on the computer. It is assumed that students only have the ability to think creatively about environmental design, but lack the ability to express their thinking, although they can complete the environmental design drawings as required, the content is lacking in vividness and flexibility. Therefore, we should adopt the open traditional classroom approach to cultivate students’ ability to use computer drawing and regularly carry out CAD drawing software learning for students to improve their ability to express their creative thinking, so that the environmental design course can be more vivid and enhance students’ interest in learning.

3.2. Designing Guiding Course Teaching Ideas. The degree of difficulty, novelty, and scope of environmental art design course teaching can directly affect the learning effect of students, so we should design guiding course teaching ideas and propose scientific and reasonable course teaching topics.
Security and Communication Networks

Next, establish cooperative relationship with several environmental design industries within the market, and students can refer to the recent design results of enterprises in the process of designing with computer-aided environmental design drawings, design guided course teaching ideas, and accumulate students’ practical experience. The design of teaching ideas is shown in Figure 3.

As shown in Figure 3, teachers can introduce examples of enterprise design from environmental art design courses, guide students to analyze the design ideas of the results, combine students’ learning perceptions, ask students targeted environmental design design-type questions, encourage students to use computers, give full play to their creative abilities, use a variety of computer drawing software, put forward their own design conjectures, guide students to complete environmental design solutions, provide students with market research resources, organize data about environmental design, verify the feasibility of the drawings or results of the design in the market distribution application, summarize the problems that arise in the design process, set up discussion groups so that students can communicate with each other, summarize the main points of the design class and the innovative points in the process of completing the design, by the teacher according to the focus of the class, and appropriate extension of knowledge points. The teacher will deepen students’ understanding of environmental design and expand students’ design ideas.

3.3. Design Course System Based on CAD Technology. Based on CAD, improve the practical courses, transfer the traditional teaching classroom to the environmental design construction site, create a variety of learning conditions for students, integrate the teaching schedule of the course, lead students to visit the site to see the shape of a variety of parts or accessories in environmental design objects, improve students’ sense of space, make the traditional classroom more abstract or difficult to understand the professional knowledge of popularization, and deepen students’ design ability.

Since the practice courses are usually arranged outdoors, at the beginning of the design practice courses, the professional teachers guide the students to complete the self-study of the professional courses on the teaching platform and clarify the learning tasks that students need to complete in the practice courses through the communication and discussion among students. In the classroom, teachers provide students with environmental design drawings of the visited areas and carry out analysis of environmental design features to ensure that the teaching system is targeted in the implementation. In the course of implementation, students are guided to think more and observe more, to use computer ideas and environmental design construction principles to find their own potential problems in learning, to fully integrate theory and practice, to be summarized by the teacher’s professional knowledge when necessary, to review the practical learning process with the help of multimedia teaching tools, and to supplement the learning content ignored by students. The teacher will review the practical learning process with the help of multimedia teaching tools and supplement the learning content that students have neglected.

3.4. Strengthen the Horizontal Connection between Course Teaching and CAD. Improve the extension of professional knowledge, strengthen the horizontal connection between multiple courses of environmental art design, integrate environmental design construction and CAD, reasonably arrange the class time of practical courses and theoretical courses, so that teachers can grasp the dynamic learning trends of students while completing the teaching tasks of the courses, and guide students to solve the practical problems in course learning. Building a student learning platform, teachers can upload market research data and survey reports to the platform in the form of compressed files and introduce a variety of computer drawing techniques to improve students’ ability to use computers while deepening their spatial understanding of graphic images. The integrated teaching mode of design establishes a direct connection between different disciplines, enables students to get systematic training in learning, improves students’ motivation to learn, builds a new mode of student learning interaction, enhances students’ overall representation and cognitive ability of environmental design, cultivates students’ innovative and creative ability, and cultivates applied talents for the development of the environmental design industry.

4. Case Analysis

Based on the university level, with the integration of new ideas of education reform, universities have raised the importance of teaching environmental art design courses, whether at the level of teacher team construction or the level of university orientation, there are different degrees of improvement, market service departments have been added to regularly carry out research activities of the industry in the market development trend, which can improve the connection between teaching resources and the market according to the real-time situation of industry development.

Based on the student level, most of the students said in the survey that they have established the correct knowledge of the industry development and professional learning and can strictly follow the teaching arrangement of the teachers, follow the teaching steps of the professional teachers, and assist the teachers to complete the teaching objectives with high quality and high efficiency. In addition, based on the teaching needs of universities, some teachers choose to go to environmental design enterprises in the market for continuous training, in order to improve their academic professional ability and develop their own correct professional ethical quality as the standard, and participate in diversified environmental design market research activities, so as to provide students with more professional and perfect teaching resources.

Based on the demand of enterprises and deepening of teaching reform measures, enterprises can provide 50–70 students with jobs in colleges and universities every year according to the job demand, which effectively alleviates the current situation of employment difficulties of graduates. At the same time, the relevant enterprise managers have suggested in the survey that students who have studied through the teaching reform have a higher degree of adaptability to the
internal positions of enterprises, and compared with the early employed students, this group of students can adapt to the working atmosphere of enterprises more quickly in their positions, and then integrate into the internal collective, which improves the practical application ability to use computers.

At present, environmental art and design education is 3 years, the training mode is generally two and a half years of school study plus half a year of enterprise internship, and the curriculum system is generally basic courses, professional foundation courses, and professional courses. In order to cultivate job-competent talents, the curriculum is key to align with the actual work project. According to the spirit and requirements of the current curriculum reform and the problems of curriculum design, this paper constructs a “three vertical and three horizontal” job-competent teaching curriculum system: the first stage is practical basic courses, the second stage is project-based core courses, and the third stage is practical enterprise courses, as shown in Figure 4.

4.1. Teaching Ideology. The main teaching idea of project-driven mode is “student-led and teacher-led”. Students should become the main body of learning, make students more willing to believe themselves as a designer, and enjoy the learning process more, so that their self-drive can be enhanced.

In addition, students are the main body to control and advance the teaching progress. During the teaching process, teachers should improve and revise the teaching plan according to the students’ project progress and seize the teaching moment when the progress is stagnant and students are in a cognitive dilemma. This is because the efficiency of the teacher’s instruction is greatly enhanced when the students’ eagerness to get out of the status quo is at a high point.

4.2. Teaching Objectives. With innovative thinking and practical skills at the level of process and method, require students to learn the learning method of inquiry learning, independent learning, and be able to actively obtain learning resources; at the level of emotional attitude and values, require students to have a strong interest in design and have a realistic level of emotional attitude and values, and students are required to have a strong interest in design and a realistic and innovative attitude.

Specifically, taking “3ds Max Software Fundamentals and Applications” course as an example, for environmental art design students, its teaching objectives are to be able to proficiently use 3ds Max software operation skills to complete effect drawing, creatively express design concepts, and stimulate interest in design expression.

4.3. Teaching Procedures and Essentials. Teaching procedure refers to the specific operation steps, specific rules, and teaching schedule in the course of implementation. Take “3ds Max software foundation and application” as an example, set the project case as 120 m² space design (120 m²...
three bedroom design/120 m² restaurant space design), and
the teaching procedure and main points of the course are as
follows (see Table 1).

In this course, Module 1 focuses on familiarizing stu-
dents with project design cases, as they have not had a
systematic study of design theory, so the instructor provides
the basic planes on which the students can base their sugges-
tions for optimization. This takes into account the ob-
jective learning base of the students and also gives them
room to play with their designs.

At the end of Module 2, it is necessary to plan grouping
design teaching tasks according to a process scoring and
divide students into work groups and home groups
according to their ability to accept new knowledge, so as to
reasonably distinguish the difficulty of the tasks.

Module 3 still emphasizes the role of the students, who
provide the furniture style and the overall layout of the
project design case, and the teacher assists the students to
complete the design expression by teaching them how to use
the software and techniques.

Module 4 also requires the students to give their own
design examples of the space and color palette, and the
instructor will give suggestions on the style and color
scheme, while the students will try to use their own so-
lutions to give material mapping, feel the shortcomings of
the solutions and make changes. Module 4 is a difficult part
of the software technology, but not a difficult part of the
design, so the focus is on helping students to complete the
software skills, the teacher teaches lighting arrangement
and debugging methods, allowing students to simulate the
design expression under different light senses such as day,
night, cool, and warm tones, in order to help them use
lighting to set the mood.

An important guarantee for the model to work is that
students must use their off-class time to complete the given
tasks, and therefore it is emphasized in the rules. The off-
class time is communicated through the cloud classroom
online, which not only requires students to submit their
proposals on time during the off-class time but also requires
the teacher to complete the proposal instruction online at the
agreed time so that the teaching time can be truly expanded
and the given teaching task can be completed.

The in-class time is mainly used by the teacher to plan
the teaching content rationally based on the materials
submitted by the students, which requires the teacher to not
only teach the textbook part but also help the students
analyze most of the difficult problems they encounter in
their self-inquiry, thus allowing the students’ main role to be
fully played. Students are also able to help each other solve
noncommon problems after grouping, which helps to re-
duce individual students’ blind spots in knowledge, which
also enhances students’ cooperative learning ability.

4.4. Support System. For practical professional software
courses, the realization of project-driven teaching mode
requires hardware and software support systems; otherwise,
no system can be formed and no good teaching effect can be
achieved.

(1) Software learning resource library. Teachers need to
collect software teaching videos, software demon-
stration videos, model libraries, material libraries,
parameter reference data, reference libraries and a
series of learning resources, the learning resources
should have clear categorization, easy to use
characteristics.

(2) Multimedia platform in class. School multimedia
classrooms need to have teacher-student interaction
software, computer configuration to meet teaching
needs, real-time updated software and Internet ac-
cess conditions, project-driven teaching mode also
requires full communication between students, so
the seating arrangement should also be more flexible.

(3) Effective off-class communication platform. Mobile
Internet should be used for teaching, project-driven
teaching mode needs to rely on time to complete
tasks in class, and it is especially important to es-

tablish a perfect platform for teacher-student in-
terraction in class, in which teaching software such as
Blue Ink Cloud Class and Cloud Classroom should
be widely popularized to ensure instant interaction
and communication between students and teachers
in class.

4.5. Evaluation of Teaching and Learning. Teaching evalua-
tion is mainly for skill evaluation, “skill” is what the
American educational psychologist Robert Mills Gagne
(1916–2002) called operational skill, which is divided into
three levels of learning: one is the level of imitation, in-
cluding demonstration and specific guidance under the
prototype. The first is the level of imitation, which consists of
performing operations with prototypes and specific in-
structions, simulating and modifying the objects provided.
The second is the independent level, which includes per-
forming operations independently, making adjustments and
improvements, and trying to make connections with existing
skills. The third is the level of transfer, which includes ap-
plying existing skills in new situations and understanding
the applicability of the same skill in different situations, etc.

According to the information processing theory of
Gagne (Robert Mill’s Gagne, 1916–2002), the project-driven
CAD course teaching evaluation also starts from the above
points and contains two parts: one is the degree of mastery of
basic software skills, which is mainly reflected in the level of
imitation, and basic knowledge mastery level. The first is the
mastery of basic software skills, which is mainly reflected in
the level of imitation, basic knowledge mastery level. The
second is the completion of the project, which is mainly
reflected in the level of creative expression, application level.

In this paper, we designed a table of teaching evaluation
and its methods (see Table 2). The test questions are divided
into subjective and objective questions, and the subjective
questions are graded by both students and teachers.

The CAD course is different from the case teaching
method in traditional teaching. Rather than simply inserting
a case, it incorporates a real project throughout, which
requires teachers to change their lesson planning and also
requires students to have a basic sense of design. In today’s teaching process, all these conditions are available.

(1) Teacher level. The concept of “student-led and teacher-led” has been popularized, and teachers are very receptive to this concept and have had similar experiences. The difficulty of the teaching model lies in the introduction of specific cases and the embedding of knowledge points, which are similar to the case-based teaching and are not new to teachers.

(2) Student level. Students often have a basic understanding of their major and are no longer unfamiliar with the term design when they are exposed to the course. Although their design skills are not strong, it does not affect their absorption and digestion of the knowledge points of the software course. At the same time, students already have strong learning and self-inquiry ability, as long as they are driven by interest, they are able to complete the absorption and transformation of knowledge. In addition, the small class size of about 30 students in the university also facilitates the model and helps to decompose the project tasks.

(3) Technical level. The teaching mode requires the joint participation of teachers and students both online and offline. The teacher provides a packet of materials, students submit their plans through the cloud classroom at the specified time, and the teacher makes timely suggestions online and plans the lesson according to the students’ needs.
and offline. With the existing cloud classroom, blue ink cloud class, social platform, and sufficient online course resources, teachers and students are fully able to achieve instant interactive communication during nonclassroom time.

Therefore, the teaching model is a new attempt derived from the mature teaching concept applied to specific courses, which has both subjective and objective bases and is highly feasible.

5. Conclusion

Based on CAD, this paper studies the reform and practice of environmental art and design teaching and improves professional curriculum system and ensure the smooth development of diversified teaching activities. Through the analysis of this paper, insisting on student-oriented and innovative design is the basic purpose of the curriculum teaching reform, and only by improving students’ practical application ability and cultivating their innovative and entrepreneurial consciousness can we ensure the effectiveness of talent cultivation. Although the teaching reform strategy proposed in this paper has achieved partial success in actual teaching, it is still necessary to follow the development needs of the times in the later development, establish a multi-course cross-teaching system, guarantee the high enthusiasm of students in the learning process, and then provide excellent talent support for the development of the market environment design industry.

Data Availability

Data sharing is not applicable to this article as no new data were created or analyzed in this study.

Conflicts of Interest

The author states that this article has no conflicts of interest.

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