Exploration of Modular Teaching Model for Environmental Art Design Specialty in Information Age

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Abstract: In the information age, the current teaching situation of environmental art design is not optimistic. There are many reasons for this phenomenon. In addition to the traditional inherent factors, the more important thing is that there is no basic teaching evaluation system and teaching model reference in environmental art design education. Based on the characteristics of the information age, this paper studies and establishes new rules of teaching design of environmental art design, and designs a teaching model of environmental art design.

1. Introduction
Using advanced information technology to optimize the classroom teaching of environmental art design specialty, using modularization theory to modularize, deepen and refine the whole model step by step, and attach importance to the education of the overall environmental concept. It is a modern design education mode suitable for the sustainable development of the 21st century to set up a holistic view of architecture, landscape design and interior design [1], and to cultivate innovative talents of environmental art design with ecological aesthetic consciousness. The implementation of the sectional teaching mechanism has scientific basis, in view of the characteristics of environmental art and design specialty, it should integrate the college and share resources to achieve common education. Strengthening students’ basic abilities and professional skills is helpful for students to get more comprehensive training and improve their overall control ability [2].

2. Modular teaching model structure of environmental art design specialty
The whole teaching system is separated into seven modules according to the modularization theory, as shown in Figure 1 below.

![Figure 1. Advantages of VR technology in art design teaching](image-url)
According to the learning content and requirements of these seven modules, more relevant sub-modules are designed to constitute the whole teaching information system \cite{3}. These sub-modules can be added or reduced, updated and upgraded according to the needs of students' professional ability in the current information age. Then, according to the logic of smaller modules in the sub-modules, it can be concluded into a new level, and the curriculum of each school year will be formed according to the actual situation of the school's information technology equipment.

![User login sequence](image)

The system management module has the functions of managing data dictionary, collating data backup and recovery, administrator user control and management, restriction of authority management, overall configuration and management of system parameters. User login is shown in Figure 2.

3. **Teaching model of environmental art design major**

The specialty of environmental design has a wide scope and strong practicality. It involves many disciplines, and uses a lot of information and technology \cite{4}. Therefore, the teaching model should be based on the actual situation of teaching and practice.

3.1 **Basic teaching module of CAI**

The use of information technology to assist teaching, while improving efficiency, maintain commonality and develop personality teaching, emphasizing the professional adaptability and direction of basic design teaching. Not every major has the same basic teaching, but has the same part with different parts, and different parts of the curriculum and content are designed for their different professional characteristics \cite{5}. The engineering content of environmental art specialty is not exactly the same as that of architecture specialty. The content of environmental art specialty focuses more on the relationship between the content of the subject and interior design, which is a necessary knowledge and skill for interior designers. The teaching design of this course module needs a lot of network information resources.

3.2 **Teaching module of fuzzy landscape design and interior design specialty**

This stage mainly studies the basic theory, basic knowledge and related design skills of interior design and landscape design, so that students can exercise their design thinking ability by learning interior design and landscape design theory. Through the basic training of professional modelling foundation, design principles and methods, computer software technology and other related information technology, studio and engineering practice ability, we can understand the history and current situation of interior design and landscape design, and the development trend of the latest professional achievements. Environmental art design can only be based on architectural design to develop two professional directions, landscape design and interior design, while architectural design is completed...
by a special department of architecture to complete formal professional teaching. Whether it is architecture or engineering architecture, environmental art majors in limited time according to their own preferences, learn more and make deep design project at the time of graduation.

4. **Modular teaching model structure of environmental art design specialty**

The teaching content of environmental art design consists of four modules: general basic course, subject basic course, professional basic course and professional direction course.

![Figure 3. Modular teaching model of environmental art design specialty](image)

Among them, the professional orientation course establishes a professional and multi-directional open training mode. According to their professional interests, students establish their own future industry direction, and cultivate high-quality, broad-based, high-skilled and adaptable environmental art design professionals, as shown in Figure 3.

Besides, the major of environmental art and design should include both liberal arts and science. Its advantage lies in that a considerable number of students in the high-end and middle sections of the major maintain their advantages after they enter the society. The mode of combining liberal arts with science can not only make students of liberal arts and engineering learn from each other's strengths and weaknesses in their professional skills and teachers' information-based teaching methods, but also have complementary advantages in their thinking and learning methods. As shown in Figure 4 below.

![Figure 4. The core of teaching model for environmental art design major](image)
5. Conclusions
With the development of modern information technology, information technology is gradually applied to environmental art design and teaching. Therefore, the teaching of environmental art design should take information technology as an auxiliary means into consideration, and establish a more perfect and reasonable teaching model and teaching control system of environmental art design, and reduce waste in human and material resources, and save educational resources. So as to cultivate environmental design talents who are more suitable for market demand and innovative spirit with the times, so that the graduates of environmental art design can meet the basic requirements of society.

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References
[1] Xu Xiaoxing. Exploration on the Construction of Teachers' Design Studio in Higher Vocational Colleges[J]. Science and Technology Information, 2012, (12).
[2] Song Yongming. Studio Teaching Model Research of Art and Design Specialty[J]. Fortune Today, 2011, (12).
[3] Zhang Xiaoyan. Integration of Information Technology and Art Design Teaching under Network Environment[J]. Science and Technology Information, 2008, (15).
[4] Wu Jiang. Research on Academic Thoughts of Modern Chinese Architecture[M], Chinese Architectural Industry Press, Beijing, 2000.
[5] Zhang Zheng. Education of Environmental Art Design [J]. Journal of Shenyang Institute of Education, 2010.
[6] Wang Fengxian, Principles of Teaching and Learning, July 1, 2000, Higher Education Press, Beijing.