



# Research on Cultivation of Skilled and Innovative Talents of Interior Art Design Major in Higher Vocational Colleges under the Strategy of Three Highs and Four News in Hunan Province

Sihuang Liu, Run Yuan\*

Hunan Automotive Engineering Vocational University, Zhuzhou, 412001, China;

\*Corresponding author e-mail: 309121295@qq.com

**Abstract.** With the development of society, one of the key forces to promote scientific and technological progress and industrial upgrading will be skillful and innovative talents, who are able to combine theoretical knowledge with practical operation and solve practical problems. Therefore, the development of higher vocational education needs to continuously absorb new educational concepts and technologies, further improve on the basis of the original cultivation of technical talents, and be committed to cultivating skilled innovative talents.

**Keywords:** Scientific and technological progress; Skilled innovative talents; Higher vocational education.

## 1 Introduction

This article will analyze the current situation and existing problems of the talent cultivation mode in the field of interior art design, and propose effective improvement measures and suggestions. This not only helps to further optimize curriculum design and teaching methods, enhance students' practical abilities and innovative consciousness, but also provides valuable references and inspirations for related educational reforms and industry development. Expected to provide theoretical support and practical guidance for improving the teaching quality of interior art design majors in vocational colleges.

## 2 Research Ideas

The research idea of this paper will mainly focus on the cultivation of skilled and innovative talents in interior art design majors in higher vocational colleges and universities. Firstly, the theoretical basis and the current development situation at home and abroad of the cultivation of skilled talents in interior art design majors will be elaborated through literature review, and the advantages and shortcomings of the existing teaching

modes and methods will be analyzed in depth. Secondly, through field research and case analysis, we collect and organize the teaching practice experience and successful cases of interior art design majors in different higher vocational colleges and universities, and explore their effective practices in cultivating students' practical operation ability, innovation ability and industry adaptability.

The core content of this paper includes a comparative analysis of the cultivation effect of students' comprehensive ability under different teaching modes, and proposes optimization plans and suggestions suitable for the current social demand and industry development trend. Through qualitative and quantitative research methods, the key factors affecting the cultivation of skilled and innovative talents, such as curriculum, training base construction, teacher team building, etc., are analyzed in depth, with a view to providing theoretical guidance and practical operation suggestions for the teaching reform and practice innovation of interior art design majors in higher vocational colleges and universities, and to further enhance the quality of education and the competitiveness of students' employment.

### **3 Definition and Characteristics of Cultivating Skilled Innovative Talents in Interior Art Design Major**

The training of skilled and innovative talents in interior art and design programs aims to cultivate professionals with a deep theoretical foundation in art and design and extensive practical skills<sup>[1]</sup>. The aim is not only to require students to master the core concepts and techniques of interior design, but also to emphasize their innovative and problem-solving abilities. Specifically, the cultivation of skillful and innovative talents in this major firstly requires students to be able to understand and apply the knowledge of design principles, space planning and layout, materials and color matching, and at the same time be able to flexibly apply such knowledge to solve complex practical design problems<sup>[2]</sup>.

In addition, the cultivation of skilled and innovative talents in interior art design also includes the following characteristics: focusing on practical operation and project combat, through fieldwork, internships and actual project design, allowing students to gain practical experience and ability from theoretical learning; emphasizing interdisciplinary cooperation and communication, cultivating students' teamwork spirit and the ability to collaborate with other professionals<sup>[3]</sup>; focusing on the market demand and the industry development trend. In order to ensure the competitiveness of graduates in the job market, the curriculum and teaching content are adjusted in close connection with the actual occupational needs.

Overall, the cultivation of skilled and innovative talents in interior art design not only requires students to have a solid professional foundation and innovation ability, but also emphasizes their ability to adapt and innovate quickly in design practice, injecting new vitality and way of thinking into the development of the industry.

#### **4 Analysis of the Current Situation of Cultivating Skilled Talents in Interior Art Design Majors in Domestic Vocational Colleges**

The analysis of the current situation of the cultivation of skilled talents in domestic higher vocational colleges and universities specializing in interior art and design shows that the education system and cultivation mode in this field are being rapidly developed and optimized to meet the social demand for high-quality design talents and the changes in the development of the industry.

First of all, the setting and development of interior art and design majors in domestic higher vocational colleges and universities has become increasingly perfect. Many colleges and universities have established specialized interior art design departments or colleges, equipped with advanced design studios, laboratories and exhibition spaces to provide students with a good platform for learning and practice<sup>[4]</sup>. As for the curriculum, it ranges from basic design theory courses to professional interior design practical training courses, covering various aspects such as space planning, material application and decorative design, etc. It focuses on the combination of theory and practice, and aims to cultivate students' innovative ability and practical operation ability.

Secondly, the diversification of teaching methods and content is a prominent feature of interior art design majors in current vocational colleges in China. In addition to traditional classroom teaching, more and more universities are introducing project-based teaching models to cultivate students' teamwork and project management abilities through the design, execution, and presentation of actual projects. Practical teaching has also been strengthened, and students have the opportunity to participate in field visits, industry internships, and design projects in collaboration with enterprises, thereby enhancing their ability to cope with practical work and market competitiveness.

In addition, domestic higher vocational colleges and universities interior art design program also focuses on close contact with the industry and real-time feedback. Schools and design companies, construction companies and other industry organizations to establish a stable cooperative relationship, through two-way information exchange and technical support, so that the course content and teaching methods can keep pace with the development of the industry<sup>[5]</sup>. This close industry connection not only provides students with practical opportunities, but also promotes the interface between education and market demand, making it easier for students to integrate into and contribute to the development of the industry after graduation.

Of course, the cultivation of skilled talents in interior art design still faces some challenges and room for improvement. For example, how to effectively integrate interdisciplinary knowledge and skills, how to balance the technical requirements of artistic creation and practical construction, and how to better integrate the concepts of digital design and sustainable development into curriculum design are all directions that the current education system needs to further explore and improve.

Overall, the current situation of cultivating skilled talents in interior art design majors in domestic higher vocational colleges and universities shows the characteristics of diversification, practice orientation and deep integration with the industry, which

provides students with a broad space for development and good career prospects, and at the same time injects new vitality and innovative power into the development of the industry. With the changes in society and technology, the education mode and cultivation strategy in this field will continue to be continuously adjusted and optimized in order to meet the market demand and cultivate more excellent design talents with all-round development ability.

## **5 The Effectiveness of Cultivating Skilled Innovative Talents in Interior Art Design Major at Hunan Automotive Engineering Vocational University**

The analysis for the cultivation of skilled and innovative talents in interior art design specialty of Hunan Automobile Engineering Vocational University shows that the university has achieved remarkable results in cultivating students' practical operation ability and innovative thinking. First of all, the university pays attention to the combination of theory and practice, and fully integrates the teaching activities of actual case analysis, project training and simulated work scenes in the curriculum. In the process of participating in various design projects, students are not only able to understand and apply the basic theories of interior design, but also able to exercise their creative expression and problem-solving skills in practice.

Secondly, the University provides students with sufficient practical platforms by establishing and improving practical training bases and studio facilities. These facilities not only include modern design software and equipment, but also cover material samples, model-making tools, etc., enabling students to carry out practical operations and project implementation in a simulated working environment. Creating this practical environment effectively stimulates students' sense of innovation and design inspiration, and enhances their application ability and practical experience in professional skills.

Finally, the University also values interdisciplinary cooperation and exchange, actively promoting the integration of interior art design with related disciplines such as architecture, engineering, and art. By collaborating with students and teachers from other majors, students can not only broaden their horizons and ways of thinking, but also learn diverse design concepts and problem-solving methods, cultivating teamwork spirit and interdisciplinary communication skills.

The training of skilled innovative talents in the interior art design major at Hunan Automotive Engineering Vocational University not only includes comprehensive theoretical education and practical training, but also emphasizes the cultivation of innovative thinking and interdisciplinary comprehensive abilities. The effective application of these methods enables students to quickly adapt and excel in the interior design industry after graduation, laying a solid foundation for their career success.

## **6 Suggestions for Improving the Quality of Skill based Innovative Talent Cultivation in Hunan Province's Interior Art Design Major under the Three Highs and Four New Strategies**

In the context of rapid social and economic development, the demand for high-quality, skilled and innovative talents in the interior art design industry is increasing day by day. In response to this demand, the cultivation of skilled innovative talents in interior art design should be improved from the following points:

(1) The cultivation of skilled innovative talents must emphasize the improvement of comprehensive quality and innovation ability. This not only requires students to possess solid professional knowledge and skills, but also requires them to have interdisciplinary comprehensive abilities such as project management, communication and collaboration, and innovative thinking skills. Therefore, the traditional professional education model needs to be adjusted to incorporate more interdisciplinary knowledge and skill training, in order to cultivate students' comprehensive qualities and innovative abilities.

(2) Practical teaching plays a crucial role in cultivating skilled innovative talents. Through practical teaching, students can combine theoretical knowledge with practical operations to enhance their ability to solve practical problems. Specifically, efforts should be made to increase the construction of on campus and off campus practice bases, establish platforms for the integration of industry and education, deepen cooperation with enterprises, and provide more internship and practical opportunities. At the same time, encourage students to participate in practical projects and gain valuable experience and skills from them.

(3) The importance of personalized education to student learning. Each student has his or her unique interests, abilities and development potential. Therefore, education should focus on teaching students according to their aptitudes and providing them with personalized learning programmes and guidance<sup>[6]</sup>. This includes setting up different learning paths and development directions according to students' interests and strengths to help them realize their full potential. In addition, the study recommends the introduction of a mentorship system to provide students with personalized guidance and support to help them achieve better results in their studies and career development.

(4) Information technology plays an important role in the cultivation of skilled and innovative talents in interior art and design. Modern information technology, such as computer-aided design (CAD), virtual reality (VR) and augmented reality (AR), etc., can greatly enhance students' design ability and innovation level. Therefore, schools should strengthen the teaching and application of information technology and guide students to master and utilize these technological tools to enhance their design ability and innovation level.

(5) In the process of cultivating skillful and innovative talents, we should not only focus on the teaching of professional knowledge and skills, but also on cultivating students' vocational literacy and sense of social responsibility. It is suggested that the curriculum should incorporate professional ethics, social responsibility and sustainable development to help students establish a correct outlook on career and values.

## 7 Conclusion

This article analyzes the characteristics of talent cultivation in interior art design majors in domestic vocational colleges, summarizes the characteristics of skill based innovative talent cultivation in interior art design majors at Hunan Automotive Engineering Vocational University, and puts forward corresponding suggestions, hoping to achieve innovation and optimization of educational models, improve the quality of talent cultivation, and meet the needs of social development.

## Acknowledgment

Project of Hunan Provincial Social Science Achievement Evaluation Committee (A Study on the Problems and Optimization Strategies of Type-based Development of Higher Vocational Education in Hunan Province under the Three Highs and Four New Strategies.XSP2023JYC193).

## References

1. Nilam W. Fusion of Ornamental Art and Architectural Design: Exploring the Interplay and Creation of Unique Spatial Experiences[J]. *Studies in Art and Architecture*, 2023, 2(3): 10-27.
2. Shaheen R Z. A qualitative investigation to develop Interior Design pedagogy that foster students' creativity[D]. *Anglia Ruskin Research Online (ARRO)*, 2023.
3. Huijun C, Halabi K N M. Cultivating of Emotional Teaching Value to Art Design Undergraduate Students' Aesthetic Ability in China[J]. *International Journal of Academic Research in Progressive Education and Development*, 2023, 12(1).
4. Han X. Reform and Practice of Talent Training of Architectural Interior Design Professionals in Higher Vocational Skills Competition: Taking Chongqing Energy Vocational College as an Example[J]. *Journal of Contemporary Educational Research*, 2023, 7(5): 11-16.
5. Liu L, Liu G. Intelligent teaching method of interdisciplinary art design and CAD[J]. *Computer-Aided Design and Applications*, 2022, 19(S8): 96-104.
6. Li W, Xue Z, Li J, et al. The interior environment design for entrepreneurship education under the virtual reality and artificial intelligence-based learning environment[J]. *Frontiers in Psychology*, 2022, 13: 944060.

**Open Access** This chapter is licensed under the terms of the Creative Commons Attribution-NonCommercial 4.0 International License (<http://creativecommons.org/licenses/by-nc/4.0/>), which permits any noncommercial use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license and indicate if changes were made.

The images or other third party material in this chapter are included in the chapter's Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the chapter's Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder.

