

Aesthetic Education and Cultivation of Innovative Talents Based on Aesthetic Needs

Meichen Liu

Shandong Sport University, Jinan, Shandong, China

ABSTRACT. In the competition of modern society, the fundamental is the competition of innovative talents. The cultivation of innovative talents is an inevitable choice in the rapid development of modern higher education and global economic integration. There are many reasons that affect the cultivation of innovative talents. Aesthetic education is an effective way to cultivate innovative talents. Aesthetic education can stimulate people's pursuit of scientific phenomena and theories, help cultivate people's innovative thinking and play a predictive role in creating results. In order to meet the needs of social development, many colleges and universities are transforming to application-oriented development. Without innovation, enterprises have no living space and the national economy cannot develop. The problem-based teaching process guides students to learn and master the course knowledge. This paper attempts to discuss the relationship between aesthetic needs and good thinking quality from the unique role of aesthetic education. Aesthetic education can effectively improve people's thinking quality, promote the development of creative thinking ability, training innovative talents.

KEYWORDS: Aesthetic education, Aesthetic needs, Innovative talents

1. Introduction

Improving the ability of independent innovation and building an innovative country are the core of China's development strategy and the key to improving the overall national strength. The cultivation of innovative talents is an inevitable choice in the rapid development of modern higher education and global economic integration [1]. In the new stage of historical development, the core of the national development strategy is to improve the independent innovation ability and overall national strength and the key is to build an innovative country. We should adhere to the path of independent innovation with Chinese characteristics and enhance the independent innovation capability of the whole people to all aspects of modernization [2]. Nowadays, it has become an important development goal for colleges and universities, especially local colleges and universities. Although the cultivation of innovative talents is related to a series of problems such as school orientation, educational goal setting, educational investment and training mechanism [3]. Innovative talents need to have higher quality, which is based on people's innate endowment and is formed and developed under the influence of environment and education. It is the elements, structure and quality level of relatively stable physical and mental organization [4]. Colleges and universities shoulder the mission and responsibilities of cultivating college students' innovative consciousness and ability. Higher education is an important measure for China to improve its independent innovation capabilities and implement the strategy of strengthening the country by talents. How to cultivate the multi-level practical innovation ability of college students is a crucial issue in national economic development.

The study on the theory and practice of aesthetic education and the cultivation of innovative talents is a highly contemporary, practical, and innovative subject. Cultivating a large number of innovative talents is a major issue faced by mankind. The core of the transformation is to highlight the application and locality, but this does not mean that the level and quality of the school is reduced [5]. College students are China's future and hope during the transition period of higher education. In order to meet the needs of social development, many colleges and universities are in the process of transformation to application. When scientific research and technology practice enter the height of free creation, the relationship between the subject and object of between man and nature is likely to enter the aesthetic relationship [6]. The content of information literacy standards is relatively broad and the targeted students can be undergraduates or postgraduates. The school can be a research university or an ordinary university. How to cultivate the practical ability and innovation ability of college students is an important issue facing higher education and a long-term systematic project. Applied colleges and universities should not only position the school's talent training goal to cultivate innovative talents, but also reflect deeply on the process of talent training [7]. Only by truly understanding the meaning of cultivating innovative talents can we provide sufficient conditions for the cultivation of innovative talents. This paper attempts to discuss the relationship between aesthetic needs and good thinking quality from the unique role of aesthetic

education.

2. The Significance of Aesthetics Teaching to the Cultivation of Innovative Talents

2.1 Cultivating Students' Creative Thinking

Theoretical teaching and practical teaching are an organic whole. The two have never been isolated. Even in the traditional pure theory teaching, the cultivation of practical ability and innovation ability can also be implemented. People's innovative thinking is a kind of advanced intelligent activity, while people's intelligent activity can only be reflected through brain thinking. Therefore, the human brain is the physiological basis for developing innovative thinking [8]. Objective things are rich and varied, and they have countless mysteries waiting for people to explore and discover. To uncover these mysteries, people must first have a strong emotion as the driving force. Domestic information literacy education emphasizes theory over practice, and the students trained are poor in practical ability, divorced from theory and practice, and lack practical operation ability. Beauty is expressed through the form of things, so it has certain perceptual intuition. On the basis of mastering the system knowledge system, having strong practical operation and knowledge application ability, cultivating high-quality application talents with certain innovation ability and being able to adapt to the rapid development of science and technology in the future should be our talent training goal orientation. Aesthetic education is a kind of emotional education to the educated through aesthetic media. Its main feature is to infect the educated with beautiful things, so as to cultivate aesthetic interest and cultivate sentiment.

2.2 Foreseeing the Creation of Results

The cultivation of innovation ability cannot be solved by setting up an entrepreneurship course or several innovation experiments. The cultivation of innovative ability should run through the whole process of university education. In the process of running a school, application-oriented universities should continue to carry forward the traditional spirit of running a school, but they should not be complacent. People's innovative thinking is a kind of advanced intelligent activity, while people's intelligent activity can only be reflected through brain thinking. Therefore, the human brain is the basis for the development of innovative thinking. Scientific and technological innovation has become the key driving force for economic development, and the construction goal of an innovative country also puts forward higher requirements for industrial innovation. Scientific and reasonable teaching methods and means are more important links to cultivate and improve the students' multi-level practical innovation ability. In order to construct a new teaching system and cultivate the scientific and technological innovation ability of college students, application-oriented universities should first start with changing the cultivation concept. Scientific and technological activities should develop the left brain, while literary and artistic activities should develop the right brain. Aesthetic appreciation can promote the exploration of right brain function, improve students' ability of thinking in images and intuition, and make them more creative [9]. Application-oriented undergraduate courses are mainly geared to the needs of the society to set up specialties and cultivate students' ability to solve practical problems by using specialty theories. It is an extension of theoretical teaching and, to some extent, a sublimation of theoretical teaching. Universities with application-oriented undergraduate courses should aim at training front-line application-oriented and management-oriented talents.

3. Approaches to Aesthetic Education

3.1 Extensive Aesthetic Education Courses

In scientific research, innovation refers to making progress, breakthroughs and discoveries on the basis of the original knowledge, theory and technology. It reflects the transformation, improvement and renewal of the known, and it is a process from existing to new and from new to existing. Influenced by traditional education, many college students think that they only need to study professional knowledge seriously during their school days, and nothing else needs to be involved. Fine arts is one of the important subjects of aesthetic education in schools. All kinds of valuable works of fine arts can make people feel the beauty from its image and color tone, whether they vividly represent the natural beauty, or typically depict social life and vividly depict the character. What an innovative and entrepreneurial society needs most is a large number of applied and innovative talents to adapt to it. In the innovation of teaching concept, it is the most urgent and crucial to break through and surpass the original mode of thinking [10]. When carrying out aesthetic education, attention should be paid to linking with reality, offering courses that are of interest to everyone, instead of just teaching some basic theories rigidly and dogmatically. Reflecting the guidance and cultivation of innovative consciousness and ability in theoretical teaching requires teachers to have profound professional theoretical knowledge and rich scientific research and innovative work experience. Innovative learning is an autonomous learning

activity of human beings. It has innovative thinking and consciousness in the autonomous learning activity of acquiring knowledge or skills. It longs for and actively searches for the unknown when learning the known.

The basic principle of scientific aesthetic pre-construction is to boldly pre-construct a certain scientific theory or scientific model based on the rules of beauty, mainly the rules of scientific beauty, and the scientific research achievements, scientific research materials and experimental means already available. Knowledge and technological innovation, as the two main driving factors, need to cultivate financial management talents with good scientific and cultural literacy, solid professional foundation, strong self-study ability and innovative ability. Figure 1 shows the network structure system of talent information fusion management.



Fig.1 Talent Information Fusion Management Network Structure System

3.2 Strengthening Self-Aesthetic Education Ability

The cultivation of college students' scientific and technological innovation ability requires the active participation of students. In order to improve the enthusiasm of students to participate in scientific and technological innovation and competitions, it is necessary to increase publicity on the significance of participating in scientific and technological innovation activities. As the receptor of aesthetic education, innovative talents, while receiving scientific and technological knowledge, must also inherit the rational core of beauty, which promotes the existence of beauty both for themselves and for the whole society. Under the current education system, science and technology competitions are not part of the teaching plan, and teachers' workload in competitions is difficult to be included in the workload assessment. The thirst for innovative talents has become a necessity for the survival and development of the industry.

The relationship between the cultivation of innovative talents and aesthetic education is complementary. By setting up reasonable and efficient aesthetic education courses, we can improve the comprehensive quality of innovative talents we want to cultivate, avoid their one-sided development, and then achieve the sustainable contribution of innovative talents to society. Strengthen students' autonomous learning ability and improve students' ability to solve practical problems. Information literacy education is an indispensable core part of training applied talents. Through combing the knowledge structure of the curriculum, a basic problem-oriented knowledge framework is formed in students' minds. Figure 2 shows the innovative thinking system of application-oriented universities.

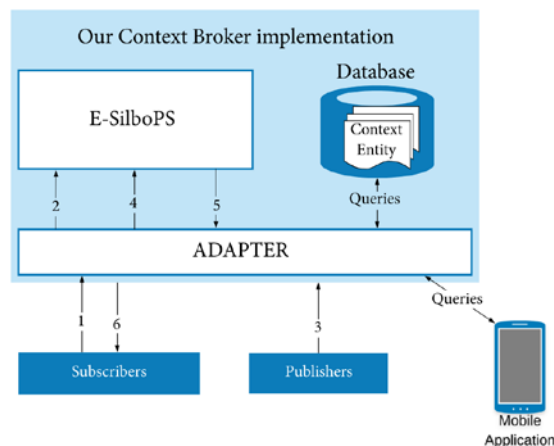


Fig.2 Innovative Thinking System of Applied Universities

The specifications and objectives required for personnel training cannot be realized. Great changes have taken place in the teaching effect after a great deal of cutting-edge technical analysis in this field and teachers' own scientific research experience have been incorporated into the actual teaching. The aim of aesthetic education is not to replace the substance of various scientific and technological dissemination, but to apply the scientific achievements created in the practice of aesthetic science and the summarized scientific laws. For the contents repeated with middle school chemistry in the curriculum, the method of asking questions and guiding students to learn by themselves is adopted, and the learning effect is incorporated into the usual results. Educators should establish an evaluation index system for the scientific and technological innovation ability of college students and seek new ways to improve their scientific and technological innovation consciousness and ability. Aesthetic education can effectively promote and develop people's good thinking quality, has an important influence on the development and creation of artists, and is also an indispensable and effective way for all innovative talents to become talents.

4. Conclusion

Nowadays, China is building an innovative country. Many schools attach great importance to the cultivation of innovative talents, and the formation of creativity and innovative consciousness is of great importance to the arrival of the knowledge economy. To cultivate and cultivate students' creative consciousness and creative ability is the highest realm and best effect of school education. On this basis, if we attach importance to the role of aesthetic education in cultivating innovative talents, it will be conducive to the cultivation of innovative talents. In order to train students to have solid theoretical knowledge of inorganic chemistry, at the same time, they must have the ability to innovate and compete in the workplace, so teaching reform is imperative. Aesthetic education can effectively promote and develop people's good thinking quality, has an important influence on the development and creation of artists, and is also an indispensable and effective way for all innovative talents to become talents. A perfect safeguard mechanism can ensure a good operation of science and technology competitions. We should set up our own characteristic teaching according to the local situation and actively promote the cultivation of college students' multi-level practical innovation ability. Teachers of all disciplines should be good at grasping the aesthetic factors of their discipline, assiduously studying teaching materials, and carefully organizing teaching so that aesthetic education and intellectual education can permeate each other and develop harmoniously.

References

- [1] Xue Ying. On the significance of art education to the cultivation of innovative talents in colleges and universities. *Popular Literature*, no. 8, pp. 264-265, 2016.
- [2] Liu Yuanping. Music aesthetic education and cultivation of innovative talents. *Journal of Aesthetic Education*, vol. 7, no. 5, pp. 232-37, 2016.
- [3] Ye Xianjin, Xu Hailong. Developing geographic aesthetic education courses and cultivating students' innovative ability. *Education of Creative Talents*, no. 1, pp. 218-21, 2015.
- [4] Zhuang Yan. Reform of teaching methods for graphic design courses based on the cultivation of college students' innovative ability. *Art Works*, no. 10, pp. 2353-354, 2018.
- [5] Meng Kexin. Cultivation of students' creative consciousness and aesthetic appreciation ability in music teaching. *Northern Music*, vol. 36, no. 11, pp. 2151-152, 2016.
- [6] Chen Binkai. A Preliminary Study on the Cultivation of Creative Consciousness in High School Art Teaching. *Urban Family Education Monthly*, no. 10, pp. 247-52, 2016.
- [7] Jia Zhujun, Chang Sijia. Aesthetic education in contemporary higher education. *Beauty and the Times: Academic (Part 2)*, no. 11, pp. 264-65, 2015.
- [8] Yang Ziqi. An Analysis of the Talent Cultivation Mode of Environmental Design Professionals in the Context of Cultural Times. *Journal of Huzhou Teachers College*, vol. 38, no. 7, pp. 2113-116, 2016.
- [9] Zhou Na. Analysis of the value of setting up basic art courses in higher vocational colleges. *Art Research: Journal of Harbin Normal University School of Art*, no. 1, pp. 2128-129, 2015.
- [10] Wang Tongling. The transformation of talent training model of cultural and creative industries in the era of aesthetic economy. *Science and Technology Economics Guide*, no. 28, pp. 2142-144, 2016.