

Exploration on the Cultivation of Students' Innovative Ability in Environmental Art Design in Colleges and Universities

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Abstract: It is a very important system engineering for colleges and universities to build their own college students to cultivate innovative ability. Therefore, with the help of colleges and universities, it is extremely important to cultivate the innovative ability of students majoring in environmental art. This paper focuses on the feasibility, current situation and practical experience of cultivating the innovative ability of environmental art design students, and analyzes the innovative ability of the college students majoring in environmental art design at present, and makes a comprehensive practice and exploration from the two points of theory and practice.

1. Introduction

As far as the present situation shows, the higher education level in our country has begun to enter a stage of popularization, that is, is in a period of high development, opportunities and challenges coexist in a period of glue, according to the survey report, there are two significant aspects: one is the current existence of a stage of high-intensity employment pressure; the other is the current social and economic market for college students to a rapid application and innovation ability requirements. However, it is not ideal that the common colleges and universities for undergraduate personnel training, often only exists in the simple knowledge above, appears extremely single, and then to the student's practical innovation ability obvious emphasis and training insufficient, and finally to the society's rapid adaptation ability is slightly inadequate, so this makes cross-disciplinary, innovative high-energy training, has become the current majority of colleges and universities for the training of talent and an important subject.

2. A Feasibility Study Cultivating the Innovative Ability of Environmental Art Design Students

2.1. The Law of Innovation is Rule-Based

According to records, one of the great inventors of the former soviet union made an important discovery about the law of innovation by summarizing and analyzing nearly 4.15 million international patents: first, the principles used in many inventions in many different fields in the past were not many. It shows that inventions made in different times or in different fields have been used repeatedly. Second, the same problem and how to solve it to use the principle, repeated in different areas. Thirdly, the evolution law of technology system has appeared repeatedly in different fields of engineering or science. Fourth, the design of innovation based on some scientific principles are often belong to other fields. As a result, based on the above, the inventor concluded and refined the general rules used to generalize the categories of technological innovation, and finally formed the name we now know : " TRZ theory ".



Figure 1 Innovative campus

2.2. Everyone has a Certain Degree of Innovation

The former Soviet inventors divided technological innovation into five different levels of difficulty. Our country has carried out extensive technological innovation in the ages of about five or sixties. Most of this innovation comes from the innovative technology proposals put forward by the first-line skilled workers, but although the difficulty level of invention is not very high, it has also achieved a relatively good effect [1]. In the material society of our lives, we all come into contact with all kinds of products and technologies all the time. Most of us will find the shortcomings or flaws in these products. So, innovation-and-invention-the seemingly high-end technology-is not just a patent for a handful of genius. In fact, everyone in real society can find problems in their own lives, ask questions, and can propose innovative solutions to these problems based on their own experience and the rich level of knowledge accumulated in the past, even as long as efforts, as long as careful, as long as the majority of people can have their own patents.

2.3. Building an Innovative Country Requires a Large Number of Innovative Talents

In the current development of New China, one of the most important reform measures to build an innovative big country and powerful country is to gradually transform an innovative system of universities and scientific research institutes into an innovative system with major enterprises as the main body of concentration. Such measures can greatly improve the independent, positive innovation and innovation ability of the major small and medium-sized enterprises in China. Therefore, in order to cultivate the tens of thousands of "high-quality and high-skilled professionals with both innovation and entrepreneurship ", we can meet the urgent needs of the major enterprises in our country for innovative talents, because only the grass-roots departments of the major enterprises have tens of thousands of innovative talent base, so that we can select and cultivate the top innovative high-energy talents, these talents can naturally form the most important and outstanding innovative talents in our country today's leaders, The construction of the strategic goal of the innovative big country can be realized smoothly. In this regard, the current educational circles in our country need to solve the problem of how to cultivate innovative talents in theory and practice, which way, which carrier and so on [2].



Figure 2 Innovative campus

3. The Current Situation of Innovative Ability Education in China

According to the data of the previous survey report, there is a serious lack of innovative thinking and cultivation of innovative spirit in our country. At the same time, people from all walks of life in our country have not formed a unified consensus on the ability and quality of a qualified and innovative high-energy talents, and there are many misunderstandings about the innovative methods and talents. Therefore, at present, our country is still in the stage of cultivating innovative talents at a superficial level, and there is no effective way to carry out the operation. Most colleges and universities in the middle school and university have set the number of scientific and technological inventions as a goal to cultivate students' innovative ability. Most of the training models are guided by tutors, the main form of which is based on the research of the subject, but there is no specific mode of operation. Another is the current social mainstream education model, the current situation of examination-oriented education, is extremely serious obstacles to most students a creative and innovative ability. Although over the years, the party and state governments have paid more attention to education and repeatedly emphasized and declared that education with some innovative methods of TRIZ this theory is gradually being promoted in a pilot in a very small number of colleges and universities in the country, the fact is that few responders are implementing it.

4. Measures to be Taken to Address this Situation

4.1. Strengthen Guidance and Create an Atmosphere of "Collaborative Education"

Colleges and universities should make great efforts to strengthen an innovative consciousness of students majoring in environmental art design, and take this as a starting point to stimulate the enthusiasm of education, and take high-end academic lectures and various high-end humanities forums as educational platforms. To improve the construction of tutors and the system construction of pilot students, vigorously carry out innovative ability training awareness education, as far as possible let the lower-grade students understand and contact with the development prospects of this subject, full of vision and self-confidence for their own professional future development prospects, and then to cultivate the enthusiasm and interest of students in a study. At the same time, we should focus on cultivating students' independent study habits and innovative spirit, and promote the successful incubation of artistic research results. The creation of the atmosphere of "collaborative education" is not simply a few elements to add up, is to a large number of various elements to achieve integration, and how to make these various elements to achieve a "integration" phenomenon? It is obvious that through the invisible force-driven and deep-seated influence on all kinds of elements in the broad cultural background, all kinds of participants are then brought into the main body to form a sense of mission and a sense of social responsibility for integration and integration in the process of cooperation, and finally a consensus and identity of innovation culture is gradually formed within the common body.



Figure 3 Environmental design drawings

5. Summary

To sum up, innovation ability plays an extremely important role in all walks of life and the future development of the country, so it is urgent to develop innovative technical talents. Therefore, it is very important to develop innovative ability and consciousness for students majoring in environmental art and design in colleges and universities.

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