

# Study on the Cultivation Mode of "Arts and Technology Integration" for Applied Talents in Non-Government Colleges under the Background of New Liberal Arts

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**Abstract:** With the continuous change of educational background, there are new requirements for talents cultivated in colleges and universities under the new economic situation. In the process of cultivating talents, private colleges and universities take applied talents as the development direction, and use the education mode of art and science integration, which is conducive to promoting the optimization of college teaching background and cultivating comprehensive talents with professional quality. For the teaching of new liberal arts, the integration of art and science requires the innovation of teaching mode in the teaching process, and the use of various means to promote the integration of art and science, so as to make full use of educational resources. This paper will study the strategy of cultivating applied talents in private colleges and universities in the context of the new liberal arts.

**Keywords:** New Liberal Arts; Non-Government College; Arts and Technology Integration

## 1. Introduction

The development of economy and society has led to changes in education. With the change of today's world pattern, digitalization and intellectualization promote the development of education. With the increasing demand for talents in modern society, the new liberal arts has the characteristics of adapting to the needs, facing the future, cross integration and innovative development. Its fundamental task is to adapt education to the new era and cultivate students with the core ability to win the future. In education, we should learn to adopt new teaching methods and use new teaching technologies to cultivate applied talents, so that the training and education strategies of colleges and universities can meet the basic needs of students after entering the society. In the process of talent training, we should promote the integration of art and scientific knowledge, so as to cultivate applied talents with a composite knowledge structure of art and science and technology.

## 2. Art and science integration education mode innovation and optimization of talent training

### 2.1. Cultivating talents to meet social needs

Under the guidance of the new liberal arts construction concept, art majors in private colleges and universities need to tap new needs of professional development, study new objects, explore new paradigms, and establish new systems under the background of the great changes in the social lifestyle in the new era. The development of technology has brought about changes in the content of education. In the process of industrial reform, new industries and new types of work have emerged. In the process of college education, cultivating talents should be more applicable. In the context of the new liberal arts, the development of integrated arts education can adapt to changes in technology and industry, so that college students have more solid professional skills to adapt to new industries and new technologies. At present, with the integration of scientific and technological progress and interdisciplinary development, art and science will increasingly show the characteristics of multiple intersection and interoperability. Combined with the needs of social development, strengthening the innovation of the training mode of applied talents in private colleges and universities is a necessary way for colleges and universities to improve teaching quality and deliver high-quality composite art talents in the new era.

## ***2.2. Cultivating interdisciplinary applied talents***

The new liberal arts education has the characteristics of diversification, has a wider width in talent training, and the educational content and knowledge involved are more complex, which can be connected with the needs of the times and society. The integration of art and science can enable students to master the effective integration between art and science, and master innovative and applied technologies in the learning process. We should emphasize innovative thinking and ability, build an integration mechanism for discipline education, and conduct in-depth research on the interactive penetration and integration development of art, science and technology, so as to cultivate high-level interdisciplinary talents and better meet the needs of modern society.

## ***2.3. Education mode innovation stimulates teaching vitality***

In the face of the development of the new era, the spread of knowledge is faster and faster. In private colleges and universities, in order to make students have access to newer and more timely knowledge, teachers must innovate teaching models, stimulate teaching vitality, and bring students the latest educational knowledge. Under the training mode of art and science integration, the culture between art and science and technology should be mutually exchanged; Let information technology promote the development of art; Let art and information technology drive the advancement of teaching. The traditional training mode is no longer compatible with the background of the new liberal arts. The education mode must be changed to stimulate the vitality of teaching and meet the challenges brought by the development of the new liberal arts. The integration of art and science requires the use of new technology in the teaching mode to bring technical changes to the training program of students and cultivate social talents with innovative thinking.

## **3. Constructing the educational mode of talent training integrating art and science**

### ***3.1. Building an information innovation education platform***

The training mode of art and science integration should grasp the trend of the new era and the opportunity brought by the new era to change the educational structure. The opportunity brought by the new era for the integration of arts and sciences is that information technology promotes the integration of arts and Sciences, brings new education models, and makes technical changes in education and training programs [1]. In the training of applied talents, the mastery of information technology is indispensable. In the process of art and science integration education, information technology should be used to promote the development of education and enhance students' skills. We should break down the barriers between majors and realize the organic integration of "humanities", "art", "science and technology" and "practice".

### ***3.2. Innovative talent training plan for art and science integration***

We should build a knowledge learning framework of art and science and technology system, so that students' professional courses are more inclined to the integration of art and science and technology. In the training of the new liberal arts teaching program, we should strengthen the cultivation of practical ability and cultural literacy of interdisciplinary knowledge. In teaching, we should integrate art and technology, use art courses related to science and technology for teaching, and add science and technology integration teaching courses on the basis of art creation to bring students more sense of experience, so that students can improve their technical ability and bring enjoyment of artistic senses at the same time. Let the curriculum system of private colleges and universities have more characteristics. The integration of art and science pays more attention to innovative practical courses [2]. In the teaching process, we should pay attention to the integration of industry and education

## **4. The way to realize the integration of art and science talents in the context of new liberal arts**

### ***4.1. The integration of art and science aims to serve the regional economy***

The education of the new liberal arts should adapt to new industries and new positions. The applied talents of the new liberal arts should take employment as the goal orientation, cultivate personal professional quality, and give full play to the advantages of school enterprise cooperation in the process of school enterprise cooperation, in order to make full use of the resources of enterprises, and carry out

professional skills training for students. We should explore the specific contents and requirements of the training advantages of art and science integration for applied talents, build a perfect and reasonable teaching method under the training mode of art and science integration for applied talents, and especially pay attention to the application of scientific and technological means in the classroom teaching of art majors, in order to adopt virtual simulation experiments to improve students' learning efficiency and interest in the combination of virtual and real. It focuses on the cultivation of "humanities and art literacy" and "science and technology" applied art talents, based on the industry, optimizing courses, strengthening teachers, improving practical training, and coordinating resources, so as to lay a good foundation for providing more favorable talents for the development of characteristic and innovative regional economy, and cultivate applied talents with the goal of serving the digital culture industry within the regional economy.

#### ***4.2. Establishing a scientific evaluation system***

We should establish a teaching management system, internal quality assurance system and supporting management system scheme suitable for the talent training management of art and science integration, and deepen the reform of targeted employment system and teacher management system, so as to formulate talent training management methods, diversify the assessment system, and use the innovative method of design thinking and based on the educational evaluation theory to effectively test and evaluate the learning effect of the test class. We should analyze the advantages and disadvantages of teaching results, evaluate the scientificity of the assessment and evaluation standards from the aspects of innovation, progressiveness, practicality, educational benefits, etc, so as to provide guarantee for the improvement of the talent training of art and science integration.

#### ***4.3. Strengthen school-enterprise cooperation to promote students' development***

Private colleges and universities under the background of the new liberal arts, arts fusion teaching way to cultivate applied talents, first of all, to strengthen the cooperation between related enterprises, this is one of the most commonly used teaching methods in the new era, communication and collaboration between schools and enterprises, to provide more professional guidance, and provide more learning opportunities and venues, has crucial for the development of talent, and students can have a deeper understanding of the teaching theory and policies, for subject teachers' professional teaching skills development also has a great help. Private colleges and universities need to adhere to the basic purpose of running schools, and reasonably set up the relevant curriculum arrangements, and constantly improve the teaching strength and quality of the teachers in the school, so as to better adapt to the trend of social development and the fundamental purpose of teaching. College teachers need to start from a variety of ways, realize their teaching ability, to the concept and importance of art fusion education mode has a more comprehensive cognition, and with a keen eye found the problems existing in the process of cultivating talents, to its proper treatment and timely solution, to try to avoid by problem accumulation on the teaching effect. Teachers should also positive to home related professional enterprises, the implementation of the new arts background for cultivating talents, new requirements, to more enterprise post talent demand and the current situation of economic and social development to inform students, let students set up the correct cognition and in the process of learning, more targeted to improve their own problems. Beyond the insufficiency, Teachers need the ability to treat their students, More attention is paid to the development and the improvement of the thinking, To solve the problem of backward talent training mode, To truly cultivate applied talents as the goal of teaching, And to provide students with more diverse learning resources, With the need of social development for talents as the wind vane of teaching, Start to arrange and adjust the course content, At the same time, we should not ignore the teaching of theoretical knowledge to students, To avoid the serious disconnection between theoretical teaching and practical teaching to the greatest extent, Leave more time for students, To absorb and apply the knowledge learned, Truly implement the talent training mode of integrating art and science integration, So that students can change their own passive learning status in the process of learning theoretical knowledge, Learn from the rich teaching content provided by teachers to the content conducive to their own future development, Constantly make up for their own learning loopholes and correct the wrong cognition. Teachers need to closely combine the education mode of "art and science integration" with the teaching content, enhance the students' weak knowledge, promote the comprehensive improvement of their ability in all aspects and the enhancement of their comprehensive quality, and truly achieve the ultimate goal of talent training.

#### **4.4. Optimize the discipline Settings and use the modern technology**

The cultivation of applied talents is a teaching strategy implemented by many private universities under the background of new liberal arts. This teaching mode can further promote the improvement of professional teaching quality and the development of students' ability, and can well solve the shortcomings and disadvantages of the traditional teaching mode. At the same time, Private university teachers in the art fusion teaching mode in the process of training students, can properly use modern technology, and based on, to students more diversified learning resources, let students to further broaden their learning horizons, enhance cultural knowledge reserves, for the future development to lay a solid basic skills.

#### **5. Conclusion**

The new growth point of liberal arts and the traditional liberal arts majors, courses and talent training mode caused by the integration of new science and technology development and liberal arts. With the support of new technologies and new methods, integrate the strength of various disciplines, and optimize educational resources, in order to cultivate students' thinking and ability of social innovative design, and break through the limitations of insufficient innovative practical ability in talent training under the original single discipline knowledge structure. We should improve and update the talent training objectives, change and optimize the talent training concept, and implement the objectives in practical teaching, in order to realize the combination of social development needs, artistic and cultural needs, talent training needs, keep pace with the times, and adapt to the situation to keep up with the trend and pace of social development. We should use information technology to cultivate students' ability, and constantly stimulate students' ability to innovate and adapt to the workplace. In the process of talent training of art and science integration, we should pay attention to interdisciplinary and knowledge integration, emphasize innovative thinking and ability, and build an integration mechanism of discipline education, to conduct in-depth research on the interactive infiltration and integration development of art, science and technology. With the goal of the deep integration of design and science and technology, we should form a training paradigm of applied talents of art and science integration under the background of the new liberal arts.

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