

THE 21ST CENTURY ARTS TALENTS CULTIVATION PATTERN
OF UNDERGRADUATE STUDIES UNDER LIAONING PROVINCE
UNDER LIAONING PROVINCE

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ABSTRACT

The objectives of this research were: (1) to determine the components of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province; (2) to propose the implementation guidelines of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province. The research was a mixed methodology research. The population includes 73 college leaders and 728 instructors from 20 universities, with a total number of 801. Using multi-stage random sampling technology, the sample size of 300 university leaders and instructors was determined. The nine key informants were implementation personnel of colleges and universities, Dean of art and Design College and lecturer of art and design. obtained by purposive sampling method. The instruments used for data collection were semi structured interview, a five-level rating scale questionnaire, and note taking by Focus Group Discussion. Major findings: (1) the components of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province included four components: Innovative and Entrepreneurial Artistic Talents Cultivation, Teaching Management Design for Vertical Professional Knowledge, Quality Assurance and Quality Management Systems, Global Literacy Skills in the 21st, (2) the implementation guidelines of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province were found that there were total 14 guidelines

as follows: four implementation guidelines for component of Innovative and Entrepreneurial Artistic Talents Cultivation, two implementation guidelines for component of Teaching Management Design for Vertical Professional Knowledge, four implementation guidelines for component of Quality Assurance and Quality Management Systems, three implementation guidelines for component of Global Literacy Skills in the 21st.

Keywords: Pattern, Arts Talents Cultivation, undergraduate studies, Liaoning Province

1. INTRODUCTION

In many countries, undergraduate Art Talents Cultivation has been squeezed and ignored, resulting in a decline in the quality of teaching, which has attracted strong dissatisfaction and criticism from the public. In fact, undergraduate art talent Cultivation provides high-quality students and quality assurance for cutting-edge research. Scholars constantly call for the reform and innovation of Art Talents Cultivation Pattern, to ensure the basic position of undergraduate art talent Cultivation in higher education system. "The cultivation Pattern of undergraduate art talents plays an important role in the research of university reform system. It not only trains high-level specialized talents and top-notch innovative talents, but also lays an academic foundation for the development of the discipline. The reform and innovation of the Cultivation Pattern of artistic talents is the brand guarantee for the university to form a "famous university" reputation. (Li xiao hong, 2016: 4-8) In November 2008, published "the fourth Asia-pacific economic cooperation (APEC) education minister statement said:" pay attention to the quality of the education is the common goal of economies, by ensuring that all students receive the quality education, we try to eliminate the APEC economies as well as the entire Asia-pacific region economic gap between; We want to improve the quality of life of our citizens so they can benefit from globalization and the growth of our economies. "Educated citizens are not only engaged, but also responsible for the social, economic and sustainable development of our 21 economies," the statement added. These calls deeply reflect the high level of concern APEC members attach to education." Members agreed that the core competencies and skills that every student must master in the 21st century include critical thinking, innovation, analysis, and problem solving, lifelong learning, teamwork, self-management, and self-learning. (China Education Daily, 2008)

The 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province has practical guiding significance for the reform and innovation of cultivating artistic talents in Liaoning undergraduate universities. To the ordinary undergraduate art

colleges and universities in Liaoning province as the research object, and to analyze its artistic talent Cultivation present situation, proposed to fit the development of a new era of art talent Cultivation guidelines and management strategy, to guide the university colleges and universities in Liaoning province to re-examine school-running idea, further defined its mission and positioning, encouraging them to play their own advantages.

The researcher is a professional art teacher with more than 6 years of teaching experience in art courses. Under the background of the reform and innovation of undergraduate art talents Cultivation in colleges and universities in the 21st century, the composition and implementation guideline of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province are determined. Therefore, the research title is "the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province".

2. RESEARCH QUESTIONS

1. What are the components of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province?
2. What are the implementation guidelines for the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province?

3. RESEARCH OBJECTIVE

1. To examine components of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province.
2. To propose the implementation guidelines of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province.

4. RESEARCH METHOD

The research was mixed methodology design which were comprised of quantitative and qualitative research. The research process includes three steps :(1) qualitative research. System carding and research on the undergraduate course the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province of the concept, principles and theories of literature, and art design in colleges and universities teachers in Liao Ning province nine education management and the teaching experience of experts conducted in-depth interviews. The experts have more than 10 years of experience, and the purpose sampling method is adopted. Semi-structured interviews were used. Data collection was done

by researchers. Content analysis of collected data; Step (2) examine the variables of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province, (3) formulate the implementation plan of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province. This is a quantitative study. According to the variables in step (1), the researchers compiled questionnaires and collected data from the samples to test the elements of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province. They are from the top 20 universities in Liaoning Province, art, and design majors 73 implementation staff and 728 instructors, a total of 801 people. The researchers used a stratified sampling technique. To improve the accuracy of exploratory factor analysis, krejcie and Morgan's Table (1970) was used to determine the sample size, which was increased to 300. The researchers used a three-part questionnaire; Part ONE: Demographic variables (checklist) Part two: variables of Liao Ning province's undergraduate art talent Cultivation Pattern in the 21st century (five-grade rating scale), Part three: suggestions (open). This tool is developed from the questionnaire developed in step (1) and evaluates the quality of the questionnaire through content validity and reliability. In terms of content validity, it was tested by 5 experts and analysed by project objective Consistency (IOC). Item value ≥ 0.60 . In terms of reliability, the Cronbach alpha value was 0.80. Questionnaires were sent online, by E-mail and by researchers. Descriptive statistical analysis of demographic variables; Frequency and percentage; Mean and standard deviation (S.D.). In order to reduce the irrelevant variables, variables of the cultivation Pattern of undergraduate art talents in Liao Ning province in the 21st century were analysed by exploratory factor analysis (EFA) method. Step (3) Formulate the implementation guideline for Liao Ning Province to the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province. This is a qualitative study. This study takes the development of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province as the research object, using each component of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province step by step. (2) Using the focus group discussion method, formulate the implementation guideline of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province; Excellent leaders and instructors from different universities in Liaoning province, 9 (professional instructors, educational administrators, implementation experts) with at least 5-10 years of working experience. They are all professionals with teaching experience or relevant management experience. Academic and management skills are widely recognized in Liao Ning province. Key informants who do not have relevant mature abilities or experience come from

ordinary first-line undergraduate teachers. According to the above criteria, the key information providers are selected using targeted sampling techniques. Notes are taken through focus group discussions, with the researcher acting as a facilitator. The data of Focus Group Discussion were analysed by content analysis method. After data collection is complete, the collected data is analysed using content analysis.

5. RESEARCH RESULTS

1. Result of Data Analysis for Research Objective 1.

It was found that overall, 70 questions the arithmetic mean (\bar{X}) was between 4.06-4.30, indicating that the respondents have an opinion on the level value of the variable by the arithmetic mean (\bar{X}) from medium to high, standard deviation (S.D.) was between 0.652-0.866, indicating that respondents have a little different opinion on the variable. In addition, Bartlett's Test of Sphericity, test statistics testing variables to see if they were related as shown in Table 1.

Table 1 Showed KMO-Meyer-Olkin and Bartlett's Test.

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.943
Bartlett's Test of Sphericity	Approx. Chi-Square	25733.894
	df	2415
	Sig.	.000

From Table 1, the KMO test results of the data collected from the research were .943 that was more than 0.800. According to Kaiser-Meyer-Olkin Measure of Sampling Adequacy, the data set could use Factor Analysis well. Bartlett's Sphericity Test at statistical significance (sig 0.000 \leq 0.05) indicate that there was the correlation coefficient matrix of variables. Therefore, the resulting information was appropriate to conduct further factor analysis.

This phase of analysis used factor extraction by Principal Component Analysis (PCA) with orthogonal rotation et.al and varimax rotation. The used criterial for considering factors were as follows; (1) 0.38 or higher was a practically significant factor loading, (2) eigenvalues greater than 1 according to Kaiser's Criterion, and (3) there were more than 3 variables (Hatcher). When considering the above criteria, it was found that there were 8 components with an Eigenvalues greater than 1. When rotating the axis, it explained a total variance of 72.724 percent, but according to the above 3 criteria, the components that met certain criteria were components 1-4, it was found to be able to explain a total variance of 66.632. In addition, the

factor loading, variables described in each of the main components after rotating the axis as shown in Table 2.

Table 2 Showed Components of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies.

Order	Components	Number of Variables	Factor Loading
1	Component 1	22	0.478-0.980
2	Component 2	19	0.510-0.835
3	Component 3	16	0.617-0.831
4	Component 4	13	0.516-0.923
	Total	70	0.478-0.923

Researcher based on the Exploratory Factor Analysis, from the table 2, it was explained that the components of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province. Consisted of 4 components: Innovative and Entrepreneurial Artistic Talents Cultivation; Teaching Management Design for Vertical Professional Knowledge; Quality Assurance and Quality Management Systems; Global Literacy Skills in the 21st.

2. Result of Data Analysis for Research Objective 2.

Through Focus Group Discussions, the researcher summarized the data provided by informants, and finally came up with 14 guidelines which included as followed: (1) emphasize the joint cultivation of professional and practical abilities; (2) Establishing Cultivation mechanisms for innovation and entrepreneurship and strengthening strategic partnership between schools and enterprises; (3) Adjust the existing management Pattern and realize the innovation of management system; (4) Develop Cultivation Patterns and programs in interdisciplinary fields; (5) Formulate education policies in line with the two-way relationship between talents and enterprises; (6) Emphasize students' compound ability and integrate teaching resources; (7) Establish a scientific and reasonable educational evaluation system; (8) Establish education quality management guarantee system; (9) Improve the system governance mechanism to achieve the goal of higher education governance; (10) Strengthen the normal classroom education and teaching, improve the quality of classroom teaching. (11) To construct three-dimensional teaching supervision system and improve the role of teaching supervision. (12) Develop high-level target skills; (13) Broaden market information and communication skills, strengthen deep learning thinking; (14) We will enhance our ability to innovate and create, and strengthen our ability to learn and manage ourselves.

6. CONCLUSION / DISCUSSION

1. Conclusion

From the research objectives, major findings were revealed as follows: (1) There were four components of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province; and (2) There were total 14 guidelines.

2. Discussion

(1) Discussion about major findings of the components of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province.

There were four components of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province. The cultivation of innovative and entrepreneurial artistic talents is an important prerequisite for improving the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province. The vertical professional knowledge teaching management design requires to emphasize the composite ability of students and develop the way of cross-field teaching integration to grasp every link of undergraduate art talent Cultivation, which is an important part of improving the comprehensive quality of undergraduate students and the development of teachers' teaching management. Quality assurance and quality management system are the fundamental guarantee for the quality and scientific education of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province. Global literacy skills in the 21st century is an inevitable trend to enhance the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province to cope with global changes and future challenges. These four components are the important elements of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province, the important guarantee to improve the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province, and the important means and basis for the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province. In the cultivation of innovative artistic talents, the results of this study are consistent with Cheng Wen Ting (2012:13-15). Her research found that Cultivation plans with regional cultural strengths should be made according to different regions, and attention should be paid to the cultivation of talents' innovative spirit and entrepreneurial ability. The content of the Cultivation program is based on the requirements of innovative and entrepreneurial talents, and the implementation efficiency is evaluated and monitored. It is necessary to formulate scientific and reasonable management policies and systems as well as feasible talent management systems. To create a good management atmosphere and environment

for Cultivation innovative and entrepreneurial artistic talents. In addition, the results of this study are consistent with the research direction of Zhang Xiong Wu (2016:30-37) In the teaching management Pattern of compound artistic talent cultivation. The research results are as follows: to establish the incentive and driving mechanism, first, the synergy of production, learning and research should be permeated into all practical links in the process of cultivating innovative and entrepreneurial artistic talents. The incentive and driving mechanism will promote the deep integration of all links of school-enterprise cooperation, increase research and development efforts, and support and promote the steady development of new art industry driven by the cultivation of artistic talents. The results of this study are consistent with the research direction of Zhang Shuo (2018:12). It requires the teachers and teaching administrators who train artistic talents to have high comprehensive quality, master certain artistic theories and master modern management methods. Teachers need to master cutting-edge theoretical knowledge, effectively implement, "double" "double" quality of high-quality professional, part-time innovative and entrepreneurial art teacher team. In terms of quality management in education science, the results of this study are consistent with those of Wu Wei (2020:122). In the process of education management, effectiveness and scientificness of the education management work through ascension, in the context of limited education resources, through to the students' learning motivation, learning initiative, enhance students' learning results and learning ability, and effectiveness of the students' employment competitiveness and sustainable development ability, from the perspective of talent cultivation and output, To provide more long-term and sustainable development power for the development of the school. In 21st Century Skills, the results of this study are consistent with those of Deng Li (2018:8). 21st century skills require critical thinking and problem solving, information communication, collaboration, creativity, and innovation. These skills are central to modern life. To provide a new model and way of thinking for global awareness and intercultural arts administrators and teaching decision makers to use 21st century skills while continuously developing and adapting to a rapidly changing reality.

(2) Discussion about major findings of implementation guideline of the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province.

In the cultivation of creative artistic talents, it is very important to emphasize the joint cultivation of professional ability and practical ability. By paying attention to the career development of undergraduates and laying a broader and flexible career plan for them, administrators can effectively improve the social practice ability of undergraduates and meet the requirements of practical artistic talent cultivation. The findings of this study are consistent

with the research results of Fu Xue Ling (2005:30-35). The integration of school-based curriculum and work-based curriculum plays a positive role in stimulating students' interest and motivation in learning, helping students to intuitively understand and effectively master the knowledge and skill requirements in the work field. It is very important for managers to establish Cultivation mechanism for innovation and entrepreneurship and strengthen strategic partnership between schools and enterprises. The strategic cooperation between schools and enterprises is conducive to enhancing the strength of schools and coping with the needs and challenges of the future society for talents. It is very important to adjust the existing management Pattern and realize the innovation of management system. In the cultivation and management of innovative artistic talents, managers also need to adjust the inherent management Pattern from the assessment system of teacher management, student management, performance management and so on, to achieve the innovation and development of management system. The findings of this study are consistent with the research results of Guo Biao (2020:60-61). According to the situation of the school, a personalized quality standard management system for the main teaching links, such as teacher opening classes, textbook selection, classroom teaching, practical teaching, graduation thesis (design), and curriculum examination, should be developed and improved. To improve and optimize the age structure, knowledge structure, educational background structure and teaching staff of the teachers. It is very important to formulate the Cultivation Pattern and plan in the interdisciplinary field in the teaching management of the Cultivation of interdisciplinary artistic talents. Managers pay attention to the cultivation of interdisciplinary fields and establish students' comprehensive knowledge structure and learning quality, which is conducive to expanding academic thinking and promoting the rapid development of education and teaching. It is very important to formulate education policies that are in line with the two-way relationship between talents and enterprises. Administrators are committed to strengthening the educational policies of talents and enterprises, and make full use of social resources to create good practical conditions for the educational development of colleges and universities. The findings of this study are consistent with the research results of Feng Xiang Yang (2019-17-19). It analyses the necessity of the innovation of art talent Cultivation Pattern in comprehensive universities under the new situation, and proposes an innovative high-level art talent Cultivation Pattern that takes ability as crossover, integration, and value as the core. It is very important to emphasize students' compound ability and integrate teaching resources. Administrators should enhance the integrity of courses, closely link all subjects, fully develop the intelligence of students, meet the needs of different students, and improve

the effectiveness of classroom teaching. The findings of this study are consistent with the research results of Wu Wei (2020:121). Education management motivation theory can start from students' ideological consciousness and internal needs, and then motivate students to be more consciously and actively involved in learning activities, to achieve better personal development. Encourage students to achieve self-management, reduce management costs, improve the efficiency of education management. It is very important to establish a scientific and reasonable educational evaluation system in the quality management of science education. Managers establish quality evaluation standards according to scientific quality standards and norms. We will improve the supervision mechanism for education management and improve the efficiency of education management. The findings of this study are consistent with the research results of Tang Da Guang, (2014: 22). It is necessary to establish a scientific and reasonable diagnostic evaluation system, enhance democratic consciousness, improve the core value of education quality management in a scientific and reasonable way, and provide students with high-quality education services and guarantee. It is very important to establish education quality management and guarantee system. Managers should establish the concept of quality management that everyone is responsible for quality management. Emphasize that the pursuit of quality needs the whole process control, all-round quality support and service. Through monitoring comprehensive collection of data, in-depth analysis, targeted to solve the problem of education quality. The findings of this study are consistent with the research results of Ni Huan Min, Xu Liming (2017:10-12). To establish a scientific internal education quality assurance system, guided by advanced quality management theories, methods, and technologies, form a comprehensive evaluation system based on quality standards and norms, process, and performance quality diagnosis. It is very important to perfect the system governance mechanism and realize the goal of higher education governance. Administrators should perfect the corporate governance structure of the school and improve the internal governance level of the school. The findings of this study are consistent with the research results of Xie Ping (2019:315). Under the theory of public governance of education management, colleges and universities can make independent decisions on enrolment, recruitment, curriculum arrangement and major setting and other work closely related to school management. High level goal skills are very important in 21st century skills. Managers pay more attention to the cultivation of high-end target skills with global competitiveness in the 21st century, give full play to the advantages and leading role of high-level target skills, and promote the renewal and transformation of traditional art disciplines to new art disciplines in universities. The findings of this study are consistent with

those of Deng Li, Peng Zheng (2019:88-98). The 21st century Skills Movement is a global movement that transcends traditional disciplines and focuses on skills and abilities. It is very important to broaden market information and communication skills and strengthen deep learning thinking. Managers should cultivate the communication skills of artistic talents to understand the market demand for artistic products. Through deep learning, students can apply academic knowledge and advanced skills to solve problems in complex situations. The findings of this study are consistent with those of Li Han (2014: 4). Learn teamwork and learn to effectively express their views and communicate with others, master the ability to express their opinions confidently and reasonably in public. It is very important to enhance the ability of innovation and creation and strengthen the ability of self-study and management. Administrators should cultivate artistic talents' independent spirit and self-management ability, gradually complete the transition from teacher management to student management, and cultivate more high-end artistic talents in line with the 21st century for the society. The findings of this study are consistent with those of the study of Huo Jing (2019:7-10). Ability to act productively in an interdependent international community, including international awareness, appreciation of multiculturalism, proficiency in foreign languages, and global competitiveness.

7. RECOMMENDATIONS

1. Recommendation for Practical Application.

(1) Construct a reasonable and effective concept of Innovative and Entrepreneurial Artistic Talents Cultivation

The cultivation of innovative talents in colleges and universities in Liaoning province should pay more attention to the cultivation of innovative thinking, innovative quality, and innovative ability than the imparting of knowledge. Pay attention to the dynamic evolution of talents' development potential and innovation ability, not treat talents statically. The education department of Liaoning province should also actively cooperate, and strive to create a system and social environment in which talents are fully utilized and outstanding talents come to the fore. Especially in local colleges and universities, it is necessary to vigorously create an environment that dares to be first, to create, to take risks, to criticize and to tolerate failure, to encourage free exploration, to promote academic democracy and to advocate academic contention.

(2) Improve Teaching Management Design for Vertical Professional Knowledge.

Liaoning colleges and universities should strengthen the cooperation of production, learning and research and cultivate compound talents. We will actively promote collaborative

innovation, encourage universities to conduct in-depth cooperation with research institutions and enterprises, and guide students to participate in cutting-edge scientific exploration and technological innovation. Colleges and universities should also strengthen the construction of the level of teachers, encourage teachers to improve their academic and professional level of further study. Further improve the professional quality and working ability of staff, carry out business discussion, investigation and collection of art appreciation, performance observation and other activities; Support professional and technical personnel to participate in international, national, and regional academic seminars.

(3) Develop Quality Assurance and Quality Management Systems

The implementation department of education in Liaoning province should further improve the construction of teaching and research work system at four levels of province, city, county, and school, strengthen the organization and leadership of teaching and research institutions at all levels, and promote the formation of a new pattern of linking up teaching and research institutions from top to bottom and horizontal linkage. We will improve the quality evaluation and monitoring system, strengthen procedural and developmental evaluation, and promote the establishment of a scientific evaluation system oriented toward developing quality-oriented education, instead of a performance-based evaluation system. At the same time, it is necessary to strengthen the construction of classroom quality and reduce students' unreasonable homework burden. Strengthen the research on curriculum, teaching, homework and examination evaluation and other key links of education, change the focus of teaching research from teachers' "teaching" to students' "learning", complete the transformation from "test-oriented teaching research" to "comprehensive education and teaching research", and realize the two-way development of teaching research and students' quality development.

(4) Develop and build Global Literacy Skills in the 21st Century.

The education reform of colleges and universities in Liaoning province should not only stop at the innovation of artistic talent cultivation, but also focus on the cultivation of talent skills. The skill education in the 21st century should pay more attention to the themes that adapt to modern society, such as globalization consciousness, finance, economy, health, and environmental protection literacy. Universities in Liaoning province should help education leaders and policy makers implement the teaching and learning of 21st century skills. The implementation department of education in Liaoning province should cooperate with colleges and universities to develop the 21st century network platform and provide relevant information resources and tools. Including professional development, course guidance, learning environment,

assessment criteria, case studies, research reports, etc. Teach students to use 21st century skills to understand and solve real-world challenges.

2. Recommendation for Further Research.

Further study the theories and researches related to the 21st Century Arts Talents Cultivation Pattern of undergraduate studies under Liaoning Province, and pay attention to the development and changes of the latest dynamic art theories. Further improve questionnaire design and data collection. The effective sample size in this study, 300, the future will enlarge the population sample size of questionnaire survey, this study investigated the only top 20 universities in Liaoning province, in the future should be ranked in the middle of Liaoning province level, and has the characteristics of the university into the research scope, more widely hold university Arts Talents Cultivation Pattern of the ecological environment in Liaoning province, Explore a more effective and reasonable art talent Cultivation system.

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