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Work Pressure, Depression, And Anxiety Among Medical Staff Amidst Covid-19 Pandemic Towards the Development of Mental Health Counseling Program

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Abstract: The purpose of this study was to explore the relationship between work stress, depression, and anxiety among medical staff as a basis for developing a mental health counseling program to address psychological issues related to the physical and mental health status of medical staff. This study used a descriptive survey method to obtain quantitative data from 260 frontline medical staff using three standardized questionnaires. **RESULTS:** Most of the respondents were female, single, under 40 years of age, high school, below intermediate level, with less than 15 years of work experience, and high work stress but low anxiety and depression levels. In the analysis of job stress, significant differences were found in terms of age, education, marital status, job title and employment cycle, but not in terms of gender. Similarly, the results for depression showed no significant differences in terms of gender, age, educational level, marital status, job title and employment duration, while anxiety showed no significant differences in terms of gender and educational level, but significant differences in terms of age, marital status, job title and employment duration. In addition, respondents' anxiety was significantly correlated with their job stress and depression. **CONCLUSIONS:** Frontline medical professionals can alleviate or even avoid depression through the role of internal and external environments, and long-term stable positive thinking practice can bring more sustained attention, clearer judgment, and more mature emotional competence to mental health, thus allowing frontline medical professionals to cope with life's challenges and psychological conditions.

Keywords: Work Stress, Depression, Anxiety, Mental Health Counseling Program

1. INTRODUCTION

During the COVID-19 pandemic, medical personnel faced a high level of work. Many doctors have been fighting on the front line of epidemic prevention and control, becoming an important force and key group in the epidemic prevention and control. For medical staff, under the normal epidemic prevention and control situation, they not only face great physiological pressure,

but also undergo great psychological tests and are prone to various negative emotions and unhealthy psychological factors. 1 In the survey and analysis of the mental health status of hospital staff, depression, anxiety and work stress are important factors that cannot be ignored and directly affect the quality of life of hospital staff and work effectiveness, and have high research value2.

On July 2, 2021, the First People's Hospital of Shangqiu City, Henan Province, the largest hospital in the region, had patients with coronavirus in the hospital and 2,000 medical staff were quarantined. During this period, doctors and nurses not only had to complete their daily nursing work, but also had to attend various training related to the epidemic, such as diagnosis and treatment, protection, and emergency response, and were ready to go to the "battlefield" of fighting the epidemic. the heavy task of fighting the epidemic and the lack of medical and nursing human resources make them work only longer hours to ensure the smooth operation of their work. Long hours of high-intensity work, mental and physical exhaustion, and increased psychological burden inevitably lead to varying degrees of tension and anxiety. On this basis, depression, anxiety and stress among hospital staff during the COVID-19 pandemic were investigated and understood so that corresponding mental health programs could be purposefully developed.

2. MATERIALS AND METHODS

The study was designed to be conducted at the First People's Hospital of Shangqiu City, Henan, China, from April 15, 2022, to December 31, 2022. the study was approved by the Institutional Review Board of the First People's Hospital of Shangqiu City, China. the total sample size was 260 physicians and nurses. They were medical staff from the intensive care unit (ICU), emergency department, fever clinic, and isolation ward, respectively. Respondents were selected using the following inclusion criteria, such as: 1. medical staff who had worked independently for more than 3 months. 2. medical staff who participated in front-line clinical work 3. informed and agreed to participate in this study to ensure that the questionnaire reflected their true

situation. the study process focused on demographic characteristics, work stress, anxiety and depression as the main study components.

To ensure that the study was conducted in an appropriate manner, all participants were given informed consent. the researcher then carefully explained the purpose and process of the study. Respondents were also informed that if they wished to withdraw at any point during the study, they could do so. the researcher obtained permission from the respondents to record the interviews. the researchers explained to the respondents that their information would be kept confidential to the greatest extent possible. the researcher also obtained consent from the authors of the tests used in this study via email.

In this study, the researcher used a descriptive quantitative research method that focused on studying medical staff work stress using the Clinician Work Stress Scale in seven dimensions, namely organizational management, career interest, workload, career development, interpersonal relationships, external environment, and doctor-patient relationship, the Depression Self-Rating Scale (SDS) to study overall depressive symptoms in health care workers, and the Self-Assessment Scale for Anxiety (SAS) to screen anxiety in health care workers.

All demographic and questionnaire information was recorded and entered into Excel. descriptive statistics on the basic status of depression, anxiety and stress among hospital staff during the COVID-19 pandemic were performed using SPSS software version 26.0. Differences in demographic variables of depression, anxiety and stress among hospital staff were analyzed by t-test for differences in independent sample means and analysis of variance. Correlation analysis was used to analyze the relationship between depression, anxiety and stress among hospital staff, and regression analysis was used to analyze the effect of hospital staff stress on depression and anxiety. the results were considered statistically significant when the p-value was ≤ 0.05 .

3. RESULTS

Table 1 shows the frequency of the demographic information of the respondents. In terms of gender, there were more females (61.9%) than males (38.1%). 42.7% of the medical workers were younger than 25 years old, 45% were between 26-40 years old, and 12.3% were older than 41 years old. 73.8% of the respondents were single, and only 26.2% were married. the majority of medical workers in the study were at the secondary education level accounting for 54.6%, junior high school 22.3%, university 22.3%, and graduate or above 0.8%. In terms of job title, 42.3% of the medical workers had junior titles, 33.8% had intermediate titles, and 23.8% had senior titles. In terms of working years, 10% had less than one year, 28.8% had 1-5 years, 39.6% had 6-15 years, and 21.5% had more than 15 years.

The work stress, anxiety and depression of the health care workers interviewed in this study are shown in Table 2. Health care workers had mild work stress (2.64), but no anxiety (49.73) and depression (43.40) occurred.

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Table 1: Respondent's Demographic Profile n=260

	f	%
Sex		
Male	99	38.1
Female	161	61.9
Age		
25 years old and under	111	42.7
26 – 40 years old	117	45.0
41 years of age or older	32	12.3
Marital Status		
Single	192	73.8
Married	68	26.2
Degree of Education		
Junior high school	58	22.3
Senior high school	142	54.6
College	58	22.3
Postgraduate and above	2	. 8
Professional Title		
Primary title	110	42.3
Medium grade professional title	88	33.8
Title of a senior professional post	62	23.8
Term of Employment		
< 1 year	26	10.0
1 – 5 years	75	28.8
6 – 15 years	103	39.6
15 years and above	56	21.5

Table 2: Respondent's Mobile Phone Involvement, Anxiety, Symptoms of Depression, Academic Burnout

	Mean of scores	Interpretation
Work Pressure	2.64	A little consistent
Symptoms of Depression	0.497	No Depression
Anxiety	43.40	No anxiety

Legend of Work Pressure: 1.00 – 1.19 (very inconsistent), 1.50 – 2.49 (a little inconsistent), 2.50 – 3.49 (a little consistent), 3.50 – 4 very consistent.

Legend of Symptoms of Depression: below 53/ 0.5 no depression, 53-62/0.5-0.59 mild depression, 63 -72/0.6-0.69 moderate depression, 73+/0.7 and above severe depression
Legend of Academic Burnout: higher scores indicate higher level of burnout.

Legend of Anxiety: Lower than 50 (no anxiety), 50 -59 (mild), 60 – 69 (moderate), 70 and more (severe)

The relationship between work stress, depression and anxiety among medical staff in this study is shown in Table 3. anxiety was significantly associated with work stress ($r_{xy}=0.279$, $p<0.05$) and anxiety was also correlated with depression ($r_{xy}=0.286$, $p<0.05$) among medical staff in this study.

Table 3: Correlation Matrix of the Respondent's Work Pressure, Depression and Anxiety n=260

	Work Pressure		Depression		Anxiety	
	r_{xy}	p-value	r_{xy}	p-value	r_{xy}	p-value
Work Pressure	1		.111	.074	.279**	.000
Depression	.111	.074	1		.286**	.000
Anxiety	.279**	.000	.286**	.000	1	

Legend: Correlation is significant at 0.05 alpha level

4. DISCUSSION

In the war against the new coronavirus pneumonia, an epidemic without smoke and mirrors, medical personnel have been fighting on the front-line battlefield against the epidemic. Medical personnel are the resisters of

natural and man-made disasters, the white angels of the people, and the great wall of the country's war against the epidemic. In the study, the age of the protesting frontline health workers was 42.7% less than 25 years old, 45% between 26 and 40 years old, and 12.3% greater than 41 years old. According to the China Health and Wellness Statistical Yearbook 2022,³ The number of practicing (assistant) physicians in China reached 4,288,000 in 2021. In terms of age structure, China's physicians are mainly concentrated in the 25-34 age group, accounting for about 41.9%, and the number of practicing (assistant) physicians aged 35-44 accounts for 24.8%. Due to the heavy workload of fighting the epidemic, more young medical workers are involved in the work. In the study, 87.7% of health care workers were under the age of 40, which is consistent with the statistical data. There were more women (61.9%) than men (38.1%) among health care workers, which is also consistent with the China Health and Health Statistical Yearbook 2022, where the ratio of women to men among frontline health care workers in China is about 7 to 3.³ Regarding marital status, 73.8% of respondents were single and only 26.2% were married. the majority of medical workers are at the secondary school education level, accounting for 54.6%, junior high school 22.3%, university 22.3%, and graduate or higher 0.8%. According to the statistics of China Health and Health Statistical Yearbook 2022,³ 99.3% of health technicians in China have junior college or college degrees, and the education level of urban and rural health practitioners is significantly lower than that in urban areas. In general, the education level of medical personnel is generally low in both urban and rural areas, with significant regional differences.

In examining the frequency of work stress among the respondents, it can be seen that respondents feel stress when they hear many negative reports about medical staff in the media, with a mean of 3.15; followed by busy work and work hours affected by unexpected events, with a mean of 3.12; they feel work stress because they think the healthcare system needs to be improved, with a weighted mean of 3.11; and they feel work stress due to the risk posed by COVID-19, with a calculated mean of 3.05. Overall, the respondents' work stress was 100.3, indicating that medical personnel are under a high level of stress at work. Due to the sudden and unpredictable nature of the outbreak, frontline healthcare workers fighting COVID-19 face significant stress. a November 2020 survey of healthcare workers in Xinjiang, China, found that 43.1% reported acute stress, compared with 45% of healthcare workers in 29 studies with a total sample size of 22,380, and that stress increased with sample size increased with sample size.⁴ This suggests that health care workers working on the front lines are under significant stress due to direct contact with COVID-19 patients. There was little depression among the respondents. This result is not surprising. the novel coronavirus has been ongoing in China for three years. In the course of fighting the epidemic, China has accumulated very rich experience and skills, and most

of the medical personnel are professionally trained and well equipped to deal with the epidemic. Through daily occupational psychological training and professional training before fighting the epidemic, medical personnel are able to actively deal with various psychological issues in the fight against the epidemic. Chinese government measures during the COVID-19 pandemic played a role, including virtual clinics, chat lines, telepsychotherapy and mental health interventions, and mental health risk monitoring techniques to help health care workers cope with depressive symptoms. In the aftermath of the COVID-19 response, the Chinese government implemented rapid psychological crisis intervention, distributed free psychological intervention and self-help manuals to the public and health care workers, and established multiple 24-hour psychological assistance hotlines where all counselors and recipients received targeted advice, which played an important role in the pandemic.⁵ Health care workers are currently anxiety-free. Related studies have shown that under an outbreak public health event, the mood changes of health care workers undergo a transition from stress with destructive or unpleasant experiences to stress with constructive or stimulating experiences.⁶ The data collected in this study were collected during the phase of transition of health care workers' mood to constructive stress. Medical workers on the front lines of an outbreak response are in the midst of a stressful relief effort and often neglect their feelings, experiences, and emotions at this time. Medical personnel are fully engaged in the fight against the epidemic, and the nation is united. With active media publicity and coverage, medical workers also gained a high level of social acceptance and the doctor-patient relationship eased. At the same time, the state and government authorities are concerned about the physical and mental health of medical personnel and have psychological counselors in the anti-epidemic teams. In order to ensure that frontline personnel are fully engaged in the fight against the epidemic without worries, the state and government departments have also given strong support. Therefore, the low anxiety level of frontline medical personnel is consistent with the psychological changes they experience when facing stress. This is closely related to the strong support from the state and government, medical units, and the medical staff's own mission.

The relationship between depression and anxiety disorders is somewhat like a sisterhood, which means that depression and anxiety disorders are very common in clinical practice.⁷ Normally, anxiety disorders and depression affect each other and they are complementary to each other. However, the correlation between depression and anxiety disorders was not significant ($p>0.05$), and the biggest reason for this may be the small sample size. In terms of occupational stress, almost all components of job stress contribute to the development of individual anxiety symptoms, and in particular, discomfort in the organizational climate shows a strong association with event anxiety symptoms. In general, arguments and unpleasant atmosphere in the

workplace can produce feelings of abuse or danger, leading to anxiety symptoms. High job demands and job insecurity have been reported to be important risk factors for anxiety.⁸ Perceptions of high job demands are associated with increased emotional exhaustion, which in turn is moderately associated with workplace phobia.⁹ Uncertainty about the future and keeping a job can lead to widespread worry and existentially threatening experiences.¹⁰ This is consistent with research.

Mental health promotion programs can be used among health care workers in order to better equip them with good mental health.¹¹ Positive thinking stress reduction therapy, positive thinking cognitive therapy, dialectical behavior therapy, and acceptance and commitment therapy can be used in the programs. Counselors who are proficient in positive thinking techniques will teach positive thinking exercises appropriate for frontline healthcare workers in counseling, depending on the condition, and guide them to gradually become familiar with positive thinking. This is done until the frontline healthcare workers can flexibly use positive thinking in their lives to deal with difficult issues and challenges. At the same time, it also helps the frontline medical staff to master a set of suitable psychological crisis coping methods, so as to ensure that the frontline medical staff can cope with life and psychological challenges independently to the greatest extent possible after leaving the counseling, and to avoid the relapse of psychological problems to the greatest extent possible.

5. CONCLUSION

The majority of the medical staff respondents in this study were female, single, under 40 years of age, high school, less than intermediate level, and less than 15 years of work experience. Most of the respondents had high levels of job stress but no symptoms of depression or anxiety. There was a negative correlation between all variables, which indicated that even if they were stressed, it did not mean they had depression and anxiety disorders. Mental health promotion programs for medical workers, using positive psychotherapy and strengthening environmental support systems, mainly family, friends, colleagues and social groups, are recommended to promote a state of mental or physical calmness in medical workers to counteract the agitation caused by work stress.

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Research On the Reform of Talent Training Mode Oriented by Learning Outcomes

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Abstract: With the development of the Times, the traditional talent training model, it is difficult to match the social needs, change the education model, innovation education system, learning result-oriented, is the key to change this situation. This paper analyzes the current learning outcomes-oriented talent training program, and combined with the actual situation, discusses the learning outcomes-oriented talent training mode reform approach.

Keywords: learning outcome orientation; Personnel training mode; Reform

1. INTRODUCTION

With the rapid development of society, the demand for talents has gradually changed into skill-based, application-oriented and compound. In this context, talent training colleges should introduce a learning outcomes-oriented talent training model, take students as the center, continuously reflect on and improve, promote closed-loop teaching design, ensure the all-round development of students, and help students quickly integrate into society after graduation.

2. LEARNING OUTCOMES-ORIENTED TALENT TRAINING PROGRAM

2.1 Formulating training objectives according to social needs

Setting training goals is the focus of talent training plan. Different types and levels of schools have different understandings of training goals, but the same is that all schools help students plan for their future based on their own school positioning and unique training perspectives. the goal of talent training oriented by learning results is the summary of the achievement and level that students can achieve in society after completing school education, and it is the basis for the school to carry out curriculum teaching and graduation requirements. the goal of talent training should meet the needs of society, so as to ensure talent development and promote social progress. Market research on job requirements, professional abilities and service orientation of different majors is carried out to determine the needs of social development and formulate corresponding talent training objectives, so as to unify the talent training objectives with the actual needs of society, so as to ensure the correct direction of school education.

2.2 Clarify graduation requirements according to training objectives

When the goal of talent training is established, the next task is to clarify the graduation requirements and further refine the knowledge and skills that students should master during the school. Among them, graduation

requirement refers to the level of ability, knowledge and quality that students should achieve when they graduate. the prerequisite to measure graduation requirement is the talent training goal oriented by learning results. On the basis of achieving the training objectives, in accordance with the educational norms formulated by the state and in combination with the school's educational purpose, the knowledge and skills requirements for students of different majors are further refined. In addition, each major of the school shall, according to its training objectives, refine the knowledge and skills learned by the students of the major during the school period, and ensure that the educational standards established are higher than the supplementary standards of the national scope, so as to show the advantages of the major [1].

2.3 Designing ability indicators according to graduation requirements

Graduation requirements are further refined into ability indicators, which aims to ensure that graduation requirements can be fully implemented in practical teaching and can be measured by quantitative or qualitative evaluation methods. the relationship between ability index and graduation requirement is irreversible. Ability index is subordinate to graduation requirement, which shows that one graduation requirement can be decomposed into multiple ability indicators. On the contrary, one ability index cannot reflect multiple graduation requirements.

2.4 Setting up the teaching system according to the ability index

The teaching system is the support of the structure of ability cultivation. the teaching system is set up according to the goal of ability. First of all, it is necessary to find out all kinds of knowledge that students of this major need to master, handle the relationship between specialized courses and public courses well, realize that the relationship between the two is cooperation rather than competition, and communicate with students to help them form a value system that meets the needs of the industry and social development. Secondly, when selecting the course content, the teaching matrix conforming to the graduation standard should be drawn up in advance to ensure that each standard can match the corresponding teaching content and complement the interrelation between knowledge. Finally, it clarifies the internal logic of professional courses, keeps the logical sequence of various knowledge points smooth, and strengthens students' knowledge transfer level.

3. THE LEARNING RESULTS-ORIENTED PERSONNEL TRAINING MODEL REFORM

3.1 Change from discipline orientation to goal orientation

The traditional education model is a linear and closed model, which is oriented by subject and divides subject according to major. Its knowledge structure highlights the completeness of the knowledge system of the subject and pays more attention to the needs of the subject while ignoring the needs of the major. the learning outcomes-based education model is goal-oriented and uses opposite design principles. On the contrary, it means that, contrary to the traditional education mode, cultivation goals are set by external and internal demands, and the previous way of cultivation goals determined by the curriculum system is changed. However, at this time, the demand only satisfies the internal demand, ignoring the external demand, because this model is the structure of education rather than the goal of education. Therefore, talents can only passively adapt to the needs when facing the society, can not actively meet the needs. the learning outcomes-oriented talent training model can change this situation. By combining reverse design and forward implementation, demand is kept as the starting point and the ending point, and the educational goals and results are guaranteed to the greatest extent. the goal-oriented education system emphasizes the following aspects in its design: talent training objectives should be oriented by actual needs, graduation requirements should be oriented by training objectives, curriculum system and curriculum teaching should be oriented by graduation requirements. In this process, the educators involved should be clear that what they are teaching is consistent with the training goals and can help students achieve graduation requirements.

3.2 From a teacher center to a student center

Educator-centered means that teaching content determines teaching design, teaching method determines teaching process, and teaching result determines teaching evaluation, which is the inevitable result of subject-oriented traditional education. Student-centered is different. Learning content determines teaching design, learning method determines teaching process, and learning outcome determines teaching evaluation. the above phenomenon shows that student-centered teaching system requires that all teaching design and teaching links are closely related to students' learning outcomes. It requires to provide correct educational environment, understand students' learning content and learning methods, promote students' effective learning, and use appropriate teaching evaluation to understand students' learning results. the

learner-centered model is mainly reflected in the following aspects: according to the development of students to develop training objectives and graduation requirements; Design teaching content according to the expectations of students; Consider whether the faculty and other teaching conditions are helpful to the development of students; Evaluation focuses on student learning outcomes and performance; Open to all students rather than individual students [2].

3.3 From quality control to continuous improvement

The learning outcomes-oriented talent training model is a process of continuous reform, which requires education leaders to design long-term and effective improvement mechanisms to achieve the following functions: continuous innovation training objectives to ensure that they meet internal and external needs; Continue to innovate graduation requirements to ensure that they meet the training objectives; Continue to innovate teaching activities to ensure that they meet graduation requirements. the design improvement mechanism is to use three cycles to improve the design points: namely, to use the external cycle of continuous innovation training objectives; Continuous innovation of graduation requirements through internal circulation; Recycle and innovate educational activities with learning outcomes. In the implementation, consider whether the graduation requirements meet the training objectives, once they do not meet, immediately improve the training objectives, and consider whether the training objectives are achieved, if not, the graduation objectives must be improved. the innovation of teaching activities includes teachers, curriculum system, teaching evaluation and so on.

4. CONCLUSION

The learning results-oriented talents training mode provides great support for our talents' output. With the combined action of various forces, the training of high-quality talents will be more smooth, so that students can get broader development opportunities at school, as well as broader space for progress, so that students can become well-rounded people, and enhance the three-dimensional teaching results of talents' knowledge, skills and quality.

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The Application of Experiential Teaching in College Music Teaching

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Abstract: The rapid development of society has stimulated the change of people's demand for the form of education, and the improvement of students' autonomous ability has reduced the traditional mode of teaching in the education industry. Music education industry is also updated and iterated accordingly, "experiential teaching" model emerges at the historic moment. In this paper, the experiential teaching in college music education is discussed and illustrated with examples, and some reasonable suggestions are put forward.

Keywords: College music education; Experiential teaching; Application

1. INTRODUCTION

Since ancient times, music education has not attracted much attention in the education work of colleges and universities. However, in recent years, the country has started to promote quality education, which no longer focuses on students' professional learning ability. Therefore, the attention of music education has been significantly improved. "Experiential teaching" is a new teaching mode that meets the requirements of the country to promote comprehensive quality training, advocating the cultivation of students' independent exploration and independent learning ability. Therefore, the attitude of colleges and universities towards music education has changed significantly, and the application of "experiential teaching" in colleges and universities has also obtained opportunities.

2. WHAT IS EXPERIENTIAL TEACHING

"Experiential teaching", as its name implies, is a situation created by students' deep participation in the teaching process according to their own cognitive ability. This situation can reproduce or restore the content in the teaching class, so that students can generate corresponding emotions through personal experience, understand the meaning, and achieve the true sense of "integration of knowledge and practice". Generally speaking, experiential teaching is a student-centered education model. In class, teachers design some activities and let students participate in the class to experience the class theme, so as to obtain the corresponding perceptual ability and emotional improvement.

Experiential teaching can be divided into practical experience and psychological experience. Practical experience refers to the knowledge obtained by students through personal experience of some events in practice and emphasizes practical ability. Psychological experience refers to students' perception and experience

of "immersive" events psychologically, focusing on perceptual ability. Through immersive experiential teaching, students can improve their inquiry ability and perception ability, and communicate with teachers and classmates after class to constantly reflect on the teaching content, learn to draw inferences from one another, no longer passively acquire knowledge, and improve their practical and creative ability.

3. CURRENT SITUATION OF COLLEGE MUSIC EDUCATION

Colleges and universities, as an important part of the national educational institutions to cultivate talents, did not pay much attention to music education in the past teaching work, and even rarely carried out music education. Although the country has made educational environment reform, the attitude of colleges and universities towards music education has changed. However, under the influence of traditional exam-oriented education, no matter the method or means, music education or lingering in the traditional level, has not really reflected its educational significance. In the music education classroom, teachers rely on rigid oral teaching and copy the subject, ignoring the initiative of students in the teaching process, resulting in low participation and enthusiasm of students [1]. Even for some courses, students rarely go to the classroom and the music room is empty. This situation is a blow to both students and teachers. If students are not interested, teachers will have no passion and the teaching environment will be difficult to repeat.

In the current music teaching in colleges and universities, the music education system in many colleges and universities is not comprehensive, there is no systematic education for students, and the knowledge explanation content is concentrated in the classroom, unable to carry out practical exercise activities. For example, in music appreciation class, teachers only appreciate works according to the theoretical content in the textbook. The teacher of skill course also gives oral instruction according to the teaching content, without practical operation training. Even if there is practical operation training in the course, the teacher cannot explain and organize the work well, which leads to the slow progress of students' learning and fails to reflect the connotation of education.

4. THE APPLICATION COUNTERMEASURES OF EXPERIENTIAL TEACHING IN COLLEGES AND UNIVERSITIES

4.1 Change teachers' teaching concepts

In college music education, experiential teaching is an emerging educational method. Only by strengthening

teacher training, improving their teaching quality, paying attention to the trend of academic development, establishing a student-led consciousness, creating experiential teaching situation, helping students quickly integrate into the classroom, and enhancing their own sense of experience and perception can students enhance their interest in learning. And only by actively understanding students' ideas and needs, can students give play to their subjective initiative and awaken their subject consciousness. In daily courses, teachers should also abandon the traditional teaching concept of scripted teaching, pay attention to differentiated teaching, communicate with students, and encourage students to study hard in different music fields in the direction they are interested in.

4.2 Cultivate students' subject consciousness

In experiential teaching, although teachers need to do a good job of guidance, but "master leads the door, cultivation depends on individuals", students only in experiential teaching give play to their subjective initiative, dare to sing, perform, active and happy learning, can get an efficient classroom, students can adapt and create on the basis of music learning, improve their learning ability. This is the key to college education today. However, in the process of experiential teaching, teachers should also make certain norms of behavior, requiring students to have their own opinions but also respect others' preferences. Therefore, both teachers' teaching concepts and students' subject consciousness are crucial, and they complement and promote each other [2].

4.3 Stimulate students' thinking experience

As can be seen from the above, the subject of experiential teaching is students, and teachers only play an auxiliary role. Therefore, in the teaching work, the follow-up teaching focus is to fully stimulate and mobilize the enthusiasm of students, so that students can develop creative thinking. For example, in the music appreciation class, teachers can lead students to appreciate different musical art forms, cultivate students' diversified aesthetic ability, and let students understand different musical forms. As music is a vague and abstract art form, many students do not have a strong understanding of music. Coupled with the particularity of thinking, stimulating students' innovative thinking in music teaching becomes a long process, which cannot be accomplished overnight. Therefore, it is necessary to slowly cultivate students' understanding of music, deepen students' understanding of music, and stimulate their innovative thinking experience.

4.4 In-depth experience of social activities

In the implementation process of music teaching in colleges and universities, the music teaching resources on campus are always limited, which cannot meet the diversified needs of students. Therefore, experiential

teaching should not always be concentrated in the school, and teachers should lead students out of the campus to carry out music practice in the society [3]. For example, participating in part-time activities related to music, or professional unit activities, can stimulate students' interest and enhance students' aesthetic perception ability. In art practice, teachers can guide from two aspects: broaden the breadth and depth. Broadening the scope will allow students to have more choices. the more choices, the more students can participate in the content they are interested in, and the more motivated and interested students will be. Broadening the depth can make students more deeply realize the significance of activities, change from passive to active, and better complete social practice activities with a positive and enterprising thought.

5. CONCLUSION

This paper discusses the application of experiential teaching in college music education. Firstly, it introduces the content of experiential teaching in detail and makes clear the main idea of this paper. Secondly, it analyzes the present situation of college music education. By comparing the two, it is found that experiential teaching is very important in college music education, so it leads to the application countermeasures of experiential education in college music education. Nowadays, music education has been greatly improved. College music education is not only a simple entertainment activity, but also an important course to help students develop good music accomplishment and emotional experience. Only by ensuring the richness and diversity of classroom activities can students better integrate into experiential teaching, perceive the charm of music and improve their comprehensive quality.

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Research On Gamification of Special Physical Training for Aerobics in Colleges and Universities

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Abstract: Calisthenics is an important part of physical education in colleges and universities. It has the characteristics of fitness shaping, leisure and entertainment. It meets the exercise needs of college students, so we should pay attention to the teaching of calisthenics in colleges and universities. In order to increase students' participation enthusiasm, colleges and universities should implement the gamified special physical training plan of aerobics, change the original single teaching mode, so as to give play to the role of college aerobics teaching.

Keywords: College aerobics; Special physical training; Gamification

1. INTRODUCTION

In order to stimulate the enthusiasm of college students, it is necessary to strengthen the research on the gamification of special physical training of aerobics, constantly increase the interest of aerobics training, and encourage students to enjoy the fun of exercise easily and happily. In this regard, colleges and universities need to master the gamification characteristics of special physical training, and then innovate the training content and methods, so as to provide students with more innovative training forms, so that students can feel fun while exercising, which is helpful to improve students' physical fitness and bring positive influence to their future development.

2. THE CHARACTERISTICS AND FUNCTIONS OF THE GAME

2.1 Entertainment

Games can make students relax physically and mentally and have the characteristics of entertainment. the combination of games and aerobics physical training can promote students to learn by playing, which is helpful to relieve the learning pressure and meet the needs of students' physical and mental development.

2.2 Regularity

Games are not only entertaining, but also have the characteristics of rules. When carrying out game teaching activities, teachers often tell the rules to students, so that students can participate in the game according to the corresponding rules, so as to regulate the behavior of students, so that they can progress and grow together.

2.3 Universality

Games also have the characteristics of universality, because of the various content and types involved, teachers can choose games suitable for students to

design, and the games are often easy to organize, simple to participate in, the combination of games and aerobics special physical training, help to attract students, so that they take the initiative to participate in aerobics special physical training.

3. PROBLEMS EXISTING IN SPECIAL PHYSICAL TRAINING OF CALISTHENICS IN COLLEGES AND UNIVERSITIES

With the arrival of the new era, physical training in colleges and universities has received extensive attention. As an important content of physical training, calisthenics has the advantage of improving students' physical quality. Therefore, it is necessary to strengthen the research on special physical training of calisthenics. At present, many colleges and universities still have some problems in carrying out special physical training of aerobics, which are as follows:

3.1 Training concept and training mode

In the process of calisthenics special physical training in colleges and universities, there is a problem of outdated training concepts and training modes. Some teachers think that it is of great significance to improve students' basic quality, so they often focus on basic quality exercises in training design and ignore other aspects of training, resulting in students not getting comprehensive development, which seriously affects the quality of calisthenics special physical training. In addition, the training mode is not innovative, many teachers blindly use the original training mode, and the allocation of time and content is not reasonable, thus reducing the effectiveness of special physical training aerobics. In view of this problem, colleges and universities should clarify the principal position of students, apply advanced training concepts and training modes to them, and teachers should play a guiding role, so as to strengthen the level of special physical training of aerobics.

3.2 Training content and arrangement method

For aerobics special physical training, training content is very important, through the selection of appropriate training content to improve the physical quality of students, so as to play the role of aerobics training. But at present, the content of calisthenics training in many universities is relatively simple, mainly based on the past teaching content, lack of innovation, resulting in the physical training effect is not obvious. In addition, the arrangement of special physical training for aerobics also has a great influence. Some colleges and universities do not pay enough attention to the

arrangement, which is easy to affect the progress of students, and ultimately make the quality of physical training for aerobics is not high [1].

3.3 Unreasonable grouping

When carrying out aerobics special physical training, it is necessary to make reasonable grouping, so that students can get progress and development in the group, so as to strengthen their own quality. However, in terms of the current training situation, the grouping of special physical training for aerobics is not reasonable, mainly because there are great differences among students. Teachers do not fully consider the differences of students when grouping, which results in uneven completion of group tasks and thus reduces the enthusiasm of students to participate. Reasonable grouping can improve the training effect of students, encourage students to find the advantages of other students in the group, and realize common learning and progress.

4. THE GAMIFICATION STRATEGY OF COLLEGE AEROBICS SPECIAL PHYSICAL TRAINING

In the special physical training of calisthenics in colleges and universities, we should pay attention to the gamification of training and integrate interesting elements into it, so as to encourage students to have interest in physical training and improve their physical quality. For colleges and universities, it is necessary to implement the gamification of special physical training of aerobics from many angles, so as to give play to the advantages of aerobics teaching. To this end, this paper will put forward the following points:

4.1 Choose games that students are interested in

In order to stimulate students' participation enthusiasm, teachers should constantly improve the gamification degree of special physical training for aerobics, so that students can feel the fun of special physical training for aerobics, and then participate in it more actively and proactively. In this regard, colleges and universities need to innovate the content of special physical training, and design the content that students are interested in into the special physical training of aerobics, to ensure that it meets the physical and mental development characteristics of students, so that students can enjoy the exercise at the same time. In view of the needs of students' physical training, games should be combined with physical training. For example, some music should be played in the warm-up section, so that students can follow the music to free activities, or musical chairs should be arranged, so that students can concentrate their attention during the game and carry out special physical training of aerobics with a positive learning

state. It is helpful to improve the effect of physical training [2].

4.2 Pay attention to developing students' intelligence

Calisthenics can not only improve the physical quality of students, but also develop their intelligence, through the body movement to promote the overall development of students, conducive to give full play to the advantages of physical training. Therefore, colleges and universities should pay attention to developing students' intelligence, and apply the games that help students' brain development into the special physical training of aerobics, so that students can develop intelligence in the training process, so as to achieve the effect of physical and mental development.

For example, teachers can design a game of "follow the music and do what I do", allowing students to follow the music to train their physical coordination, so that students can mobilize their physical excitement, which is conducive to eliminating the pressure on learning and thus focusing their attention. Or, teachers can also design some competition, randomly ask several questions related to calisthenics, test the adaptability of students, so that students can deepen the impression of the theoretical knowledge, help to obtain rich learning experience.

5. CONCLUSION

With the arrival of the new era, the physical and mental development of college students has been paid more attention. In order to improve the coordinated development of body and mind of college students, it is necessary to implement the gamification of special physical training for aerobics, combine games with special physical training, so as to enhance the interest of aerobics teaching and encourage more students to actively participate in it. In this regard, colleges and universities should strengthen the research on the gamification of aerobics special physical training, adhere to the principle of students-oriented, try to choose games suitable for students' psychological characteristics, so as to give full play to the game's entertainment, popularity and regularity, and bring positive influence to promote the development of college aerobics professional training.

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Application Of Bim Technology in Building Structure Design

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Abstract: With the rapid development of modern social economy, the development and application of BIM technology in our country also increases, especially in the application of building structure design is extremely wide and has achieved significant results. Based on this, this paper analyzes the characteristics of BIM technology, and studies the specific application of BIM technology in building structure design.

Keywords: BIM technology; Architectural structure design; Application

1. INTRODUCTION

Now, construction engineering in our country has a very high social status, has played a positive role for the economic development of our country. To maintain the situation and to protect the green and healthy development of the building engineering industry, BIM technology should be actively applied in the building structure design work, and reasonably use the technology to improve the design efficiency and quality, and promote the highly efficient development of the building industry. In addition, building structure designers need to combine the existing BIM technology application experience, and constantly improve and innovate it to ensure the long-term application of this technology.

2. CHARACTERISTICS OF BIM TECHNOLOGY

Under the background of the new era, BIM technology has a variety of excellent properties, which can play a role in supporting data information for construction, design and management of construction projects [1]. First of all, BIM technology has good coordination. In terms of current construction projects, only the establishment of contact, coordination and cooperation between various departments of the enterprise can guarantee the quality of operation, and BIM technology can play a bridge role, improve the information circulation between various departments, and promote the efficient development of construction engineering enterprises. Secondly, BIM technology has visualization. Construction drawings, as the instruction book of construction engineering, are the basic guarantee for smooth construction. In order to improve the rationality of construction drawings, 3D digital technology of BIM technology can be used to design models to help relevant designers quickly understand the design aspects of building structure and in-depth analysis of building structure. So as to effectively reduce the structural design link error rate and improve the rationality of the design scheme; Finally, BIM technology has the property of simulation. Relevant

staff can carry out reasonable simulation experiments with the help of this technology, such as designing the construction process into three-dimensional animation and showing it, so as to ensure that defects existing in the construction drawings can be found out from the simulation experiment, and timely change the construction plan to ensure the high efficiency and high quality of the subsequent construction.

3. THE SPECIFIC APPLICATION OF BIM TECHNOLOGY IN BUILDING STRUCTURE DESIGN

3.1 The application of BIM technology in drawing design

Under the background of the new era, the application of BIM technology in the design of architectural structural drawings has become an inevitable trend. This technology can effectively improve the accuracy and rationality of construction drawings [2]. Therefore, relevant designers should pay attention to the application of BIM technology when carrying out drawing design. Firstly, relevant designers can make reasonable use of BIM technology to analyze massive data and information, and get the best design scheme in the analysis, so as to improve the overall design level of the building structure. Secondly, the visualization characteristics of BIM technology are rationally utilized to present the key points in the architectural drawings, which is convenient for designers to observe and analyze the design details, and finally ensure the scientific and accurate design of the architectural drawings. Finally, when the relevant designers of construction engineering need to change the designed drawings, they can reasonably use the BIM technology system to input the parameters that need to be modified, realize the automatic adjustment of the design model through the advancement of the system, and automatically generate the design drawings, so as to reduce the working pressure of designers and improve the economic benefits of the enterprise.

3.2 The application of BIM technology in space design
For the design of building structure, the planning and design of building space is particularly important, and the actual construction site should be confirmed to complete the analysis of building space [3]. At the same time, it is also necessary to focus on the analysis of the topographic characteristics of the building space. After drawing the final design scheme, BIM technology is rationally applied to analyze the slope height, slope and other parameters of the space with this technology, so as to ensure that the final design scheme of the building structure is perfect and reasonable. Among them,

relevant designers can reasonably use GIS software to establish corresponding three-dimensional models and analyze the trend of architectural space slope through the presentation of the models, laying a solid foundation for the subsequent design process. In addition, when carrying out space design work, relevant designers also need to pay attention to the surrounding environment of the construction project, and reasonable design, in order to optimize the allocation of various resources in the construction link.

3.3 Application of BIM technology in structural parameter design

The design of building structure parameters is very important, the accuracy and rationality of the parameters can guarantee the quality of building structure design. Therefore, relevant designers should actively apply BIM technology when designing structural parameters, and automatically adjust various parameters with the help of BIM technology to reduce the working pressure of designers. In addition, BIM technical data model can not only help designers find out the defects in the design drawings, but also facilitate the setting of various parameters. Therefore, relevant designers can reasonably use the three-dimensional digital model to complete the parameter setting work when applying BIM technology.

3.4 The application of BIM technology in the creation of steel structure model

Under the background of the new era, the construction and development of the construction project has also increased, among which the construction materials, construction technology and all kinds of equipment have been improved, especially the popularization and application of steel structure, for the construction and development of the construction project has played a positive role. In order to ensure the rationality of steel structure design, relevant designers should reasonably apply BIM technology in the creation of steel structure model, use this technology to reasonably calculate steel structure connectors and connecting components, and thoroughly analyze whether the steel structure design is reasonable through the calculation results. In addition, the number of bolts and the number of welds used in the design of steel structure should be calculated with the help of the data sharing function of BIM technology, so as to realize the purpose of effectively controlling the distance of steel structure.

3.5 Application of BIM technology in structural performance analysis

In addition to the above specific application of BIM technology in building structure design, the application of BIM technology in building structure performance analysis is particularly important, it can accurately

analyze and calculate whether the building structure design is reasonable. Therefore, building structure designers under the background of the new era need to actively apply BIM technology to analyze structural performance. For example, when carrying out the structural performance design of basement buildings, BIM technology can be used to rationally design various pipelines to ensure that the distribution of pipelines is reasonable. At the same time, the performance design of the building structure is important, but the building materials can not be ignored. Relevant designers need to consider the building materials comprehensively while carrying out the design work, and analyze whether the parameters of various materials can meet the design requirements of the building structure, so as to avoid reducing the performance of the building structure because of the material problems. In addition, building structure designers also need to pay attention to the emergency repair function of BIM technology, which can carry out repair work in time when encountering construction problems to ensure the smooth development of building construction.

4. CONCLUSION

In a word, under the background of the new era, the application of BIM technology in building structure design is very important, and this technology plays an active role in the overall quality of building structure design. According to the analysis of this paper, BIM technology has a variety of characteristics, this paper is also targeted at the specific elaboration, at the same time, this paper also puts forward several specific applications of BIM technology in building structure design, For example, it is applied in drawing design, space design, structural parameter design, steel structure model creation, structural performance analysis and other aspects. Hope to provide some experience for reference.

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To Explore the Application of Orff Music in the Gamification of Kindergarten Curriculum

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Abstract: With the continuous development and improvement of the education system, China adheres to the Chinese characteristic education model, to educate students comprehensively. In order to follow the education policy and better education for students, kindergarten music teachers should actively use Orff music teaching methods to cultivate and improve students' comprehensive literacy. Based on this, this paper analyzes the characteristics of Orff's music teaching method and discusses the application measures of this method in the gamification of kindergarten curriculum.

Keywords: Kindergarten music curriculum; Operational measures

1. INTRODUCTION

Nowadays, we have paid special attention to kindergarten education and developed interest courses. Music course is one of the best courses. In order to improve the teaching effect and quality of kindergarten music courses, some music teachers adopt the Orff music teaching method, with the help of Musical Instruments and reasonable teaching programs, effectively improve the teaching atmosphere and effect of kindergarten music courses.

2. THE CHARACTERISTICS OF ORFF'S MUSIC TEACHING METHOD

Under the educational background of the new era, the Orff music teaching method has various characteristics, which can be summarized as follows: First, the Orff music teaching method is creative [1]. By using this teaching method and designing reasonable teaching programs, teachers can effectively enhance students' sense of participation and finally stimulate students' interest in music. Second, Orff's music teaching method is practical, such as the teaching concept of edutainment, through the combination of games to achieve the learning of music knowledge in games; Thirdly, Orff's music teaching method is comprehensive, and this feature is the core of this teaching method. Teachers can effectively cultivate and improve students' comprehensive ability through rational use. In addition, judging from the current situation of the application of Orff music in the gamification of kindergarten curriculum, there are many deficiencies, such as backward teaching concepts and outdated teaching programs, which are not conducive to the protection of music education for children.

3. THE APPLICATION MEASURES OF ORFF MUSIC IN THE GAMIFICATION OF KINDERGARTEN CURRICULUM

3.1 Carrying out reasonable teaching with the aid of Musical Instruments

Under the background of the new era of education, the kindergarten music course is very important and plays an important role in the growth of children. Therefore, relevant music teachers should actively use instruments in Orff music for effective teaching [2]. First of all, kindergarten music teachers can lead students to the musical instrument classroom in kindergarten, guide students to have more access to Musical Instruments, and let students play independently. Teachers can patiently guide and teach, so as to improve the teaching atmosphere and effect of kindergarten music courses. Secondly, music teachers should design reasonable teaching programs and choose reasonable Musical Instruments according to the teaching programs, such as harmonica and electronic organ suitable for children at the present stage, so as to enhance students' interest in music and feel the artistic charm of music. For example, kindergarten teachers can use the beautiful rhythm of piano to teach students the gamification of music rhythm. Through the performance of children's psychological conditions at the present stage, it is found that most children will follow the rhythm to make simple actions when they hear the music. Teachers can take advantage of this, while playing the piano, let students listen to the rhythm of the music to make walking, jumping, clapping and other simple action games. the rules of the game are to let the students imitate the high five by playing the piano. the teacher can play from slow to fast, and the students also follow the rhythm of the music to imitate from slow to fast. It is also possible to define a sound in real life for children by using the high and low tones of the piano. For example, after playing a rhythm, students are asked to propose the sound of an animated character, for example, this voice is like the loud voice of a bear, this voice is like the voice of a bear, and this voice is like the voice of a bear. By substituting these animated characters, students are asked to make a simple stomping movement. I will ask the students whether they know what character's voice is, and the students will scramble to answer, I know I know, so as to achieve a good classroom atmosphere and drive the kindergarten students' perception of the music rhythm. Such gamification design can effectively promote children's interest in music, thus creating children's thinking about music.

3.2 Guide students to improvise

At the present stage, children are active and playful. Kindergarten music teachers should grasp this point and

guide students to improvise when using Orff music teaching method. Simply put, students should perform freely according to their own ideas [3]. For example, kindergarten music teachers can design reasonable micro-courseware, set a reasonable animation theme, insert a beautiful dance video into the teaching courseware, and correctly guide children to follow the rhythm of the video dance performance. At this time, teachers need to actively encourage students to perform independently, and can tell students that they do not have to follow the professional dance movements in the video. You can act out your autonomous thoughts. This teaching method can make students quickly and efficiently integrate into the teaching classroom, and show the most real side of students. On the one hand, it is convenient for teachers to know the characteristics of each student; On the other hand, it is helpful for teachers to carry out music teaching in the future.

3.3 Reasonable introduction of games into music teaching

Under the background of education in the new era, kindergarten music teachers can scientifically and reasonably apply the teaching concept of edutainment in Orff's music teaching method, that is, adopt reasonable game teaching methods, increase the interest and rich content of music courses, create a good teaching atmosphere and let children relax to learn music knowledge. For example, the teacher can make use of the sound of rain. When it rains, the teacher can open the window and let the students listen, let them feel the sound of raindrops falling on the ground and things, feel the rhythm of music brought by nature, lead the students to clap their hands and beat the beat of the music, and let the students stomp their feet to show the beat of the sound. They can carry out extracurricular activities to go into nature and listen to various sounds of nature. For example, they can hear the sound of frogs combined with the sound of birds, and lead the students to strike the combined rhythm of music. This use of natural sound training activities can effectively make children interested in music. They can also lead the students to play outdoor games. For example, in the collective game of throwing a handkerchief, let the students hold hands to form a circle. After forming a circle, the rules of the

game are as follows: Let all the students squat down and begin to sing a children's song taught in class. That is, students on the back of the circle, after singing the children's song, the first began to lose the handkerchief students, to drop the handkerchief behind a student, after dropping the handkerchief, need to run away quickly, in order to avoid being caught by middle school students, a circle back to the position of lost students can be counted as victory, students need to make a penalty, in the center of the circle surrounded by students, Sing a nursery rhyme you learned. This kind of game can well promote students' interest in learning, learning music in the game and consolidating teachers' teaching of children's songs.

4. CONCLUSION

In a word, the application of Orff music in the gamification of kindergarten curriculum under the background of new era education is very important, and this teaching method has played a positive role in kindergarten music education. According to the analysis of this paper, Orff's music teaching method has a variety of characteristics, which are also specifically elaborated in this paper. At the same time, this paper also puts forward several measures, such as carrying out reasonable teaching with the help of Musical Instruments, guiding students to improvise exercises, reasonably introducing games into music teaching, paying attention to cooperation, developing and creating thinking and other measures, hoping to provide some experience for reference.

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Research On Teaching Reform of Chemical Instrument and Automation Based on Ability Cultivation

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Abstract: The chemical industry is our industry, light industry, agriculture and other industries development support strength, so the guarantee of chemical industry safety, stability, healthy development, has the very important significance and value. Talent is a precious resource for the development of chemical industry, and it is necessary to increase the cultivation of talents in chemical education colleges and universities, and fully innovate the cultivation system in line with the development of modern chemical industry. In this paper, the teaching reform of Chemical Instrument and Automation on the basis of ability training is analyzed and explored in detail, in order to share and communicate with the teaching workers of this course and this specialty.

Keywords: Ability training; Chemical technology colleges and universities; Professional course teaching; Problems and strategies

1. INTRODUCTION

The teaching of chemical technology majors only pays attention to students' mastery of theoretical knowledge, but does not pay attention to the development of students' technical practical level and application ability. This kind of teaching direction has certain limitations and lag, which is not conducive to students' career and professional development. Based on this, in order to transfer professional, employable and compound talents with good technical practice ability to the society, relevant colleges and universities need to build a curriculum teaching system based on ability cultivation, so as to lay a solid foundation for students' professional learning and career development. As an important course for chemical major teaching, "Chemical Instrumentation and Automation" not only helps students master the relevant theoretical knowledge of chemical instrumentation and automation, but also focuses on cultivating and developing students' basic abilities of installing chemical instrumentation, reading chemical instrumentation and operating chemical automation equipment, which requires universities to carry out teaching reform in an all-round way. By enriching course teaching content, innovating course teaching methods, setting up experimental training bases and other paths, we can create perfect teaching conditions for students majoring in chemical engineering, so as to achieve the purpose of improving the training level of chemical talents.

2. PROBLEMS EXISTING IN THE COURSE TEACHING OF CHEMICAL INSTRUMENT AND AUTOMATION

Chemical engineering course teaching covers a variety of factors affecting teaching quality, mainly including but not limited to teaching content, teaching methods, teaching ideas, etc. Therefore, in the teaching of Chemical Instrumentation and Automation, in order to achieve the purpose of cultivating students' practical ability on the basis of theoretical knowledge teaching, it is necessary to deeply understand the problems existing in the course. Only in this way can we provide strong support for the subsequent implementation of teaching reform. The following is mainly from three aspects of teaching content, teaching methods, teaching ideas, to analyze the limitations of "Chemical instrument and automation" teaching.

2.1 Outdated teaching content

Teaching content is the carrier to present knowledge to students. Generally, it has rich, vivid and comprehensive teaching content, which is easier for students to understand and master knowledge points. In terms of the teaching of Chemical Instrument and Automation under the background of practical ability cultivation, the teaching content is simple and outdated, which makes it difficult for students to obtain professional ability development with the help of teaching content [1]. For example, teachers only pay attention to the theoretical knowledge in the books when designing the teaching content, so in many cases the teaching content is the original definition and concept in the textbook. In the face of this type of course teaching content, even if students memorize the concept and definition through rote learning method, it is difficult to apply the definition and concept in the technical practice. In this way, the development of students' practical ability will be greatly hindered.

2.2 Backward teaching methods

Teaching method is an important condition for carrying out teaching activities, and is also a key factor affecting the quality of teaching. It is of great significance and value to ensure the rationality and scientificity of teaching method. At the present stage, in the teaching of Chemical Instrument and Automation, there are obvious backward teaching methods applied by teachers, which are mainly reflected in the following aspects: First, the teaching method is far behind the requirements of the society for the cultivation of chemical talents, that is, the traditional teaching method lays more emphasis on

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theoretical knowledge, but ignores the technical application and practical ability cultivation, which makes it difficult for the teaching method to achieve the goal of ability cultivation [2]. Second, the teaching method lags behind students' learning requirements. the single and boring teaching method is the main manifestation of the current teaching of Chemical Instrument and Automation. Under this teaching method or mode, students will not only find it difficult to form interest in professional learning, but also fail to obtain good opportunities for practical operation of skills.

2.3 Teaching ideas lag

Teaching ideas will affect the direction and objectives of teaching to some extent. Based on the teaching reform of Chemical Instrument and Automation for ability cultivation, it is necessary to timely update the teaching ideas in order to indicate the correct direction for the subsequent teaching of specialized courses. At the present stage, the teaching thought of "Chemical Instrument and automation" has obvious lag, which seriously hinders the process of carrying out teaching reform and innovation. For example, many teachers of specialized courses believe that students' practical ability has little to do with daily classroom teaching, but needs to be gradually cultivated and formed in later career. Therefore, in the teaching of Chemical Instrumentation and Automation, many teachers do not take ability cultivation as the focus, but still focus on theoretical knowledge teaching. In this case, students will not be able to obtain comprehensive conditions for ability development.

3. EFFECTIVE STRATEGIES FOR THE TEACHING REFORM OF CHEMICAL INSTRUMENT AND AUTOMATION

3.1 Enrich the teaching content and highlight the cultivation of basic ability

Teaching content can pave the way for students to learn and help students to understand and master knowledge. Therefore, in the teaching reform of Chemical Instrument and Automation based on ability cultivation, teachers are required to lay stress on skill cultivation when designing teaching content, that is, to provide students with learning conditions for technical practical operation through teaching content. For example, teachers can design teaching content about chemical instrument structure, installation, reading and so on, and emphasize the application of automation technology in the teaching content, and add some application concepts and definitions to solve practical problems on the basis of book concepts and definitions, which provides conditions for students to develop their knowledge application ability to a certain extent. This is a good help to improve students' technical practice level.

3.2 Reform teaching methods and create conditions for cultivating basic ability

Teaching method is a means to explain knowledge to students. Based on the teaching reform of "Chemical

Instrument and Automation", it is necessary to strengthen the effectiveness of teaching method in transmitting knowledge, and give teaching method a role in cultivating students' application ability. For example, colleges and universities increase investment in the construction of experimental and training bases to provide practical teaching platforms for teachers and rich technical conditions for students. At the same time, teachers are required to combine the teaching content of specialized courses to innovate teaching methods, effectively build a teaching model combining theory with practice, so that students can form a learning thinking supported by theoretical knowledge and practical application, which will be conducive to the development of students' practical ability.

3.3 Timely updating of teaching ideas to lay the foundation for ability cultivation

Based on the teaching reform of Chemical Instrument and Automation, it is necessary to ensure the advanced nature, scientific nature and adaptability of the teaching ideas, so it is necessary to update the teaching ideas of professional courses in time. First of all, teachers of specialized courses should have a deep understanding of the necessity and importance of cultivating students' practical application ability, and ensure that they can create favorable conditions for the development of students' ability in the aspects of course teaching methods, teaching contents and teaching objectives. Secondly, teachers should practice the teaching idea of "student-oriented". As the saying goes, "see one hundred times but not practice once", teachers should proceed from the actual situation of students and provide them with more opportunities for independent practice.

4. CONCLUSION

To sum up, the teaching reform of Chemical Instrument and Automation based on ability cultivation needs to find and innovate the teaching reform path from the dimensions of teaching content, teaching methods and teaching ideas, so as to build an efficient, scientific and comprehensive teaching system of chemical engineering for students, and to deliver excellent chemical talents with practical operation ability to the society.

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Analysis On the Reform and Innovation of Journalism Communication Education in the Era of Media Convergence

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Abstract: The media industry as one of the important links of social construction and operation, its main is the occurrence of events at home and abroad through television, radio and network and other ways to spread, easy for people in other areas to watch and understand; Under the influence of the continuous improvement of modern science and technology, the wide application of computer and network information drives the rapid development of the era of media convergence, bringing certain opportunities and challenges to the news industry. Therefore, government departments need to cooperate with universities to strengthen the reform and innovation of news communication education, and cultivate more professionals who meet the needs of society. Lay a solid foundation for the overall development of the news industry. the following mainly analyzes and explores the reform and innovation of news communication education in the era of media convergence.

Keywords: Media convergence era; Journalism and communication education; Reform and innovation

1. CHARACTERISTICS OF NEWS COMMUNICATION IN THE ERA OF MEDIA CONVERGENCE

1.1 Diversification of communication content

Under normal circumstances, due to the continuous improvement of the development level of modern society, computer, network information and other advanced technology equipment are widely used in people's work and life. Due to the different channels and ways for people to obtain news information, coupled with different people's different needs for news information, media audiences can be divided into different fields; In addition, under the influence of communication channels, the same information may be expressed in different forms, such as news and network video. News explains the content of news events to the audience with the help of pictures and words, and some audiences cannot fully understand it, while network video is filmed by on-site personnel with the help of mobile phones, video recorders and other devices. Provide great convenience for the audience to observe and understand; Thus, it reflects the diversified characteristics of news communication content in the era of media convergence [1].

1.2 Multi-dimensional forms of communication

In the past, due to the limitations of ideology and technical level, the staff would carry out in-depth reports

or continuous follow-up reports according to the news content when broadcasting news information. However, with the advent of the era of media convergence, it is impossible to attract the interest of the audience only by means of text expression. In order to fully meet the spiritual needs of the audience, media organizations need to innovate the way of information transmission and realize multi-dimensional communication, so as to facilitate the audience to have a comprehensive and three-dimensional understanding of news information and conduct objective analysis of news events.

1.3 The interactivity of the communication process

In addition, under the influence of the coming era of media convergence, the process of news communication also needs to have the characteristics of interactivity; This is mainly due to the fact that in traditional news communication, after collecting news information, it needs to be edited by media units and then broadcast through TV, newspapers and other channels, resulting in the lagging characteristics of these information. With the application of new media technology and equipment, news staff can use mobile phones or live broadcast and other means to disseminate news events in time when they appear, so that audiences can understand them in time. At the same time, audiences can interact with media units through online platforms to express their own opinions and suggestions, laying a good foundation for the overall development of the media industry.

2. COMMON PROBLEMS OF NEWS COMMUNICATION EDUCATION IN THE ERA OF MEDIA CONVERGENCE

2.1 Outdated educational concepts

Through the investigation and understanding of a large number of journalism and communication education work, quite a few college teachers and college leaders do not pay enough attention to this work, the daily teaching still adopts the traditional and outdated concepts and models, and the actual teaching is limited by the educational framework, unable to cultivate students' personality characteristics, coupled with the lack of connection and coordination between general education and professional skill training. As a result, students are unable to respond to the working environment of new media in a timely manner after graduation, which limits the play of their professional quality and technical ability, and thus adversely affects the development of teaching work and the field of journalism and communication.

2.2 Lack of teaching staff

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As the leader and organizer of educational work, teachers' professional quality affects the level of classroom teaching to a great extent. However, in the journalism and communication education in some colleges and universities, relevant teachers have certain defects and deficiencies in their professional quality, ignore new media technology and equipment, and cannot skillfully use these equipment to teach and cultivate students. The actual teaching only focuses on the explanation of textbook theoretical knowledge, which limits the improvement of students' professional skills. It restricts the improvement of the later growth and development level [2].

2.3 Unreasonable application of new media technology
When the education of news communication in the era of media convergence is carried out, there will still be some problems such as unreasonable application of new media technology. The main reason is that some teachers do not understand and attach enough importance to new media technology, so they cannot train and educate students in this aspect. As a result, students cannot quickly carry out their work after entering the job. In addition, in order to obtain more traffic, some news communicators will use some unreasonable editing technology and image processing technology to falsely report a certain news event, which is easy to have a bad impact on the ideology and psychology of some college students and hinder the development of news communication education.

3. STRATEGIES TO STRENGTHEN THE REFORM AND INNOVATION OF NEWS COMMUNICATION EDUCATION IN THE ERA OF MEDIA CONVERGENCE

3.1 Strengthen the cultivation of media fusion thought
In the current period, in order to strengthen the development of the reform and innovation of journalism communication education in the era of media convergence, relevant teachers should first enhance their own awareness of media convergence, fully understand and master new media technology and equipment, and scientifically guide students' thoughts through daily teaching activities. While improving their theoretical knowledge level, Exercise students' abilities of media cooperation and video editing. Meanwhile, practice activities should be carried out regularly to exercise students' sensitivity to news, give full play to their divergent thinking, and innovate media reporting methods to provide full convenience for later work.

3.2 Strengthen the innovation of teaching methods
Usually, scientific and efficient teaching methods can greatly improve the teaching level; Therefore, in the reform and innovation of journalism and communication education, relevant teachers need to conduct in-depth analysis of traditional teaching problems, strengthen communication with students, understand their learning difficulties and deficiencies,

choose appropriate technical methods for teaching, integrate theoretical explanation with practical activities, improve the teaching atmosphere, and stimulate students' enthusiasm and initiative in learning. We will further raise the level of education in journalism and communication.

3.3 Strengthening the training of professional personnel
In addition to the above measures, in order to enhance the reform and innovation level of journalism and communication education, relevant teachers also need to adapt to the development trend of the media convergence era, innovate teaching ideas, cultivate students' innovation awareness, creative ability, active thinking and professional ethics while teaching theoretical knowledge and professional skills, so as to encourage students to enter the workplace. Strictly follow the principles of news communication, ensure the authenticity of news information, and promote the improvement of the overall development level of my work, life and news communication field [3].

4. CONCLUSION

To sum up, in the process of social construction and operation, the news industry occupies an extremely important position, but due to the limitation of traditional technical level and other aspects, some journalists' ideas are outdated, they are unable to skillfully use modern technology and equipment to carry out work, limiting the efficiency, quality and effectiveness of news communication; In order to change this situation and meet the requirements of the era of media convergence, leaders of government departments need to cooperate with journalism education majors in universities, innovate education concepts and models, establish a corresponding education system, set up professional teaching teams, train more talents in line with the development needs of the news industry, and improve the reform and innovation level of journalism communication education. So as to promote the overall progress and development of the field of news communication.

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The Application Of 3d Technology in Film and Television Animation Design

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Abstract: 3D technology belongs to one of the image processing technologies, using it to design animation works can make the overall picture more three-dimensional, compared with the previous two-dimensional animation picture, more vivid, can achieve the ideal visual value. Integrating 3d technology into film and television animation design is not only the optimization of the previous film and television animation design technology, but also effectively improve the final effect of film and television animation, which can effectively promote the development of film and television animation industry. Through the introduction of the application advantages, technical application points, specific work steps, application methods and practical application of 3d technology in film and television animation design, the purpose is to improve the quality of domestic film and television animation works, hoping to bring some enlightenment for all film and television animation design colleagues.

Keywords: Virtual model; 3D technology; Film and television animation design; Post synthesis

1. INTRODUCTION

In order to produce an excellent film and television animation work, it is not only necessary to have the plot and character conception in the early stage, but also to use appropriate design technology to design the picture, action, environment and each character shape of the work, which is a relatively complicated work. In order to make the final picture of the film and television animation work more full, more accurate interpretation of the story, animation designers began to integrate 3d technology into the design of the film and television work. the application of this technology not only makes film and television animation works get rid of the previous technical restrictions, but also expands the expression space of animation works, which can effectively drive the development of domestic film and television animation industry, and is worth our in-depth study.

2. THE ADVANTAGES OF USING 3D TECHNOLOGY FOR FILM AND TELEVISION ANIMATION DESIGN

2.1 break through the previous restrictions of film and television animation production

The traditional film production is carried out by film as the carrier, which has certain constraints, both in the design and production of the film, as well as the film distribution has caused certain obstacles. However, 3d technology is a new design mode based on the network. Digital files, satellites and networks can all be used as

the carrier of 3d films, which will not be constrained by any mode from production to release.

2.2 The expression space of film and television animation is expanded

The application of 3d technology in the design of film and television animation can strengthen the lighting special effects and the rendering of virtual models, effectively expand the performance space of film and television animation, make the unreal scenes more real, bring the audience a more infectious and shocking viewing experience, and inject new vitality into the Chinese film and television animation industry. Designers can use 3d technology to present their ideas to the audience in a more ideal effect, bringing greater development space for the film and television animation industry.

2.3 Drive the birth of related industries

Due to the short start time of Chinese film and television animation, the design technology of domestic film and television animation still lags behind that of foreign advanced countries, and is still in the exploratory stage. the number of excellent film and television works is also relatively limited, and domestic film and television animation industry practitioners feel a little confused. However, the application of 3d technology is undoubtedly a reform of film and television animation design technology. It not only brings hope to the practitioners, but also drives the rise of some industries, such as 3D animation visual design and 3D animation software design, which strengthens the cultivation of talents in the industry.

3. THE APPLICATION OF 3D TECHNOLOGY IN FILM AND TELEVISION ANIMATION DESIGN

3.1 Animation preliminary preparation stage

If designers want to use 3d technology to synthesize 3D animation for film and television animation works, they first need to hand-draw the basic roles, environment and overall framework of animation in accordance with the storyline of animation, which requires designers to have certain drawing skills. the hand-drawn material for the setting and the content of the script should be produced in advance so that the animation can be processed accordingly using 3d technology.

3.2 The middle stage of animation production

This period is the core stage of the production of the whole film and television animation works, and the production workload is relatively large. It is not only necessary to make the model according to the hand-painted materials in the primary stage, but also to add the color, action and light effect of the animation.

3.3 Mapping production stage and post synthesis stage

Mapping is also an important process in the production of film and television animation. Designers must first transform two-dimensional pictures into three-dimensional models through software, and ensure the consistency of the texture of the object and the production effect. Secondly, the design evaluation should be organically combined with the model of things, to ensure the flexibility of the model action, so as to achieve realistic action effect; Thirdly, according to the plot of the story to set the scene and lighting tone, accentuate the environment atmosphere in line with it.

4. SPECIFIC APPLICATION OF 3D TECHNOLOGY IN FILM AND TELEVISION ANIMATION DESIGN

4.1 The application of action design

When the plot of anime is conceived, if there are anime characters, it is necessary to design their expressions, expressions, actions and emotions. Compared with 2d technology, the use of 3d technology for action design can effectively improve the lifelike degree of characters' actions and bring more real movie-watching experience to the audience.

4.2 The application of role design

In order to make A successful film and television animation, it is necessary to not only have a clever conception of the plot, but also, more importantly, to give a perfect interpretation of the characters. the characters in many excellent animation works are basically distinctive and full of imagination, such as "Monkey King is Back" and "Doraemon". the characters in animation are very distinctive. And although relevant to our lives, it is virtual and full of imagination.

4.3 The application of picture design

In the production of film and television animation, designers should not only design the actions and character characteristics of the characters, but also process the overall picture. Designers will closely follow the story and character characteristics, and use 3d technology to design the image, so as to ensure the beauty and fluency of the image.

4.4 Application of environmental design

Environmental design is a part of graphic design, which is the production of the environment where the story takes place and where the characters are. When 3d technology is used to design the environment, data personnel will carry out realistic simulation processing of the environment according to the development

requirements of the script, and present the elements such as rivers, mountains and cities to the audience in a dynamic form, thus effectively setting off the plot, improving the sense of representation of the work and making the audience feel personally involved in the movie. This not only optimizes the picture sense of the work, but also introduces the environment in which the story takes place in an intuitive way, which is easy for the audience to understand.

5. CONCLUSION

Through the comprehensive introduction of 3d technology in film and television animation design in this paper, we not only make a comprehensive understanding of the advantages of 3d technology into the advantages and technical points, but also make us clear the specific application of 3d technology in animation and television design. the use of 3d technology in film and television animation design, which can make the characters more full and the overall effect more gorgeous, plays a great role in promoting the development of our country's film and television animation industry. However, 3d technology in our country is still in a preliminary stage, and we need to continue to strengthen the application of 3d technology in practice, so that it can combine perfectly with the design of film animation, and make a great contribution to the continuous improvement of Chinese film animation industry strength.

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Innovating the Role of University Library In Campus Culture Education

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Abstract: With the development of the Times, the deepening improvement of college education in the continuous progress, the library in this process not only plays the role of the original reading place, book borrowing, but also takes into account the function of cultural communication, at the same time in the ideological and political education in colleges and universities also has a positive significance. At present, in the college campus culture education, we should pay more attention to the library, innovate the library education function, innovate the campus culture education approach, so that it can help further improve the effectiveness of campus culture education. Based on this, this paper focuses on the role of innovative university library in campus culture education.

Keywords: Innovation; Colleges and universities; Campus culture; Library; Education

I. CONNOTATION OF CAMPUS CULTURE

1.1 Content of campus culture

The so-called campus culture is a culture that is directly related to the group culture, ideological culture and educational culture of the school itself. It is both tangible and intangible. Both can help the development of the school. the invisible campus culture has experienced a long period of development and cultural construction since the establishment of the school, integrating the values of the founder and the correct values of the society into it, and finally forming a unique educational ideology and culture, which enhances the uniqueness of college education and satisfies the different needs of different students. According to the actual situation, although the campus culture of different universities in our country is different at present, the ultimate purpose is the same, there is a strong spirit to guide the teachers how to provide students with high quality ideological education, improve the students' ideological quality, and contribute to the establishment of unique campus culture [1].

1.2 Structure of campus culture

It is understood that the structure of campus culture is divided into four types, namely material culture, spiritual culture, institutional culture and behavioral culture. the first is the campus spirit, which is the essence of campus culture and the cultural thoughts deposited in the development process of the school. It is also the idea that students can absorb, and finally form the corresponding thought and code of conduct to promote the development. Secondly, material culture, after a long time of spiritual culture baptism, will gradually form thrift, put an end to extravagance and

comparison of good habits, and spiritual culture has an inseparable relationship, the two complement each other, help colleges and universities to achieve innovation, patriotism and other good spiritual thoughts, so as to better educate students, cultivate quality talent. the third is the system culture, which can restrict the behavior culture and formulate targeted teaching and learning programs according to the actual situation. Its professionalism will directly affect the behavior and teaching effect of teachers and students, and even affect the requirements of the school on teachers and students. Therefore, colleges and universities must pay attention to the construction of campus culture, improve the binding force of campus culture, so that teachers and students can cultivate good behavior habits. It can not only reflect the teaching quality of a school, but also highlight the personality charm of teachers and students, and pave the way for the future development.

2. INNOVATE THE ROLE OF UNIVERSITY LIBRARY IN CAMPUS CULTURE

2.1 Promoting spiritual and cultural education on campus

Taking the campus culture of "seeking truth and innovation" as an example, "seeking truth" mainly refers to the scientific attitude and spirit that schools strive to pursue truth in educating students, while "innovation" refers to the spirit that schools must break the shackles of traditional ideas and traditional ideas in education and have the courage to pursue new scientific ideas and new things. If the combination of the two, put forward new requirements for colleges and universities, let it fully implement the scientific spirit, timely introduction of advanced scientific research equipment and hardware facilities, improve the teaching system, not only convenient for teachers, but also convenient for students, promote the development of scientific research level. In addition, colleges and universities should make innovations in the library, regularly eliminate old books and add new ones, and then purchase some interesting books according to the needs of students, so that it can become the first choice for students' after-school activities, and actively consult relevant scientific research materials to meet their own needs. However, it should be noted that colleges and universities must ensure that the library is a quiet place to create a quiet, dedicated and mutually helpful learning atmosphere for students. This environment can enable students to study more seriously, devote themselves to, and master more content.

2.2 Promote students to form correct values

Different schools have different characteristics, campus culture is also unique, the emphasis of cultural emphasis is different, even so, socialist core values are necessary content, can help students form the right values. When the campus culture construction of a school is relatively advanced, even non-students can feel the atmosphere of the school and think that it is a school full of vigor and positive learning ability, which is also a bonus for students who are about to enter the university to choose the school [2]. Meanwhile, students in our school can gradually like the campus, spend most of their time in the classroom and library, and sublimate themselves through continuous learning, learn to respect teachers and pedestrians, care for the vulnerable groups, gradually form the right values, and give play to their personality charm. Under the influence of correct values, students will consciously restrain their behavior, correct their thinking, calm their mentality, and actively study, and eventually become a useful talent to the society. In addition, "rules are dead, people are alive", the relevant person in charge of the library must continue to innovate the construction of culture, timely modify, improve, library deficiencies, such as old books and other problems, to create a high-quality good learning environment for teachers and students, to achieve the expected goal.

2.3 To provide a communication carrier for campus culture

In addition to the above methods, campus culture can also be engraved on the school gate in the form of school motto. After continuous research, the transmission methods and ways of campus culture become diversified, and more abundant carriers are used to educate and spread it, so as to make campus culture fully implemented. the education and dissemination of campus culture in the library can not only improve students' literary accomplishment, but also correctly guide students to read books with positive energy related to socialist core values, so that they can be influenced by culture in the ocean of knowledge and constantly improve themselves. In addition, discussions on relevant social topics or other educational topics can be organized regularly in the library to realize the collision of ideas. In this environment, students can also be affected, improve their thinking ability and

ideological level, and promote the development of campus culture. At the same time, libraries can also cooperate with universities to hold some meaningful cultural and sports activities, and integrate campus culture into them, so that students can feel happy and feel the charm of campus culture [3].

3. CONCLUSION

Campus culture is the content that highlights the uniqueness of a school, has profound connotation, but also has different cultural structure, and different campus culture has different effects on student education, if appropriate innovation can better attract students' attention, let students gradually fall in love with campus culture, establish correct values. In the construction of campus culture in some colleges and universities, it is found that excellent students will highlight a delicate quality consistent with the unique campus culture, which can reflect the quality of running a college. It can be seen that campus culture plays a very important role in college education, and colleges and universities should also realize the importance of campus culture construction, and strengthen the dissemination and development of campus culture. On this basis, colleges and universities should also strengthen the innovation of the library, which is very helpful to the construction of campus culture, so that students can cultivate themselves into outstanding talents with unique campus culture while learning knowledge, and achieve good development in the future.

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The Path of Integrating Positive Psychology into Student Management in Higher Vocational Colleges

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Abstract: With the continuous progress and development of our economy and society, higher vocational colleges pay more and more attention to talent training, which also makes higher vocational colleges widely concerned by the society. For higher vocational colleges, good management of college students can promote their future development in the society. In the management of college students in higher vocational colleges, positive psychology has an important impact on the mental health of college students and can promote the healthy development of college students. Therefore, teachers in higher vocational colleges should pay attention to infiltrating positive psychology into college students' management, so as to improve students' comprehensive quality. Based on this, the article simply expounds and analyzes the path of integrating positive psychology into the management of college students in higher vocational colleges, so as to enable college students to achieve good development.

Keywords: Positive psychology; Higher vocational colleges; Student; management

1. INTRODUCTION

For higher vocational colleges in the current period, in the process of training college students, different from the traditional form of training, the previous form of training attaches importance to college students' achievements, and the current stage attaches importance to college students' good thinking ability and ideology, so that students can achieve comprehensive development. Therefore, in the management of college students, colleges and universities should carry out education with positive psychology as the direction and concept, so as to further reflect the highlights of college students themselves and promote the diversified development of college students.

2. ACTIVELY GUIDE, BUILD A PERFECT MANAGEMENT SYSTEM

In the process of management of college students by teachers in higher vocational colleges, if college students have unreasonable behavior, and teachers do not use effective ways to deal with it in the initial period, such unreasonable behavior will exist in higher vocational colleges for a long time, which is easy to cause serious harm and influence. Therefore, teachers in higher vocational colleges should attach importance to the guidance of students' positive psychology, so as to build a corresponding management system. the

management system should be sound and perfect to prevent some college students from unreasonable behaviors, so that college students can restrain their own behaviors and strictly abide by the relevant institutions and regulations, so as to enhance the culture and good atmosphere of higher vocational colleges. In order to effectively implement the management of college students, teachers in higher vocational colleges should pay attention to students' mental health and ideas. Only in this way, can we create a good management environment to avoid unreasonable behaviors of college students. It is necessary to guide and educate college students to promote the good effect of college student management. In addition, in the process of carrying out the management of college students, cultivating college students' positive psychology can prevent them from knowing too much about the adverse factors. Through discussion and understanding from the direction of psychology, it can be argued that teachers should ensure that the management system is scientific and reasonable. Only in this way, students can follow the relevant system independently, thus enhancing the quality of teacher management to a certain extent [1].

3. IMPROVE THE EDUCATION MODEL, IMPROVE THE PSYCHOLOGICAL QUALITY OF STUDENTS

Due to their age, college students are in their youth period, which is sensitive and full of strong curiosity about the society. Therefore, it is easy to produce undesirable phenomena in the center of learning and life process. In view of this situation, teachers should give students correct psychological guidance. First of all, vocational colleges should build a psychological counseling room, by strong professional personnel for college students related consultation, according to the performance of college students in actual life and study, the psychological state of college students were analyzed, so as to find that college students are relatively easy to produce psychological problems, and effectively implement the prevention mode for college students, to avoid the generation of psychological problems. For unreasonable behavior of college students, it is necessary to communicate with them in a timely manner, clarify the psychological questions of college students, and give corresponding enlightenment, to promote a good psychological state of college students. Secondly, higher vocational colleges in understanding and investigating the actual psychological status of college students, can not directly

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ask college students, so that college students are easy to produce resistance psychology, can use a variety of forms to understand, such as related psychological tests, but also the Internet technology and psychology for effective connection, such as the establishment of campus website platform, And on the campus website platform regularly release some small knowledge about positive psychology, can also set up a psychological counseling window in the platform, or tree hole, so that college students in the campus website can further understand the knowledge of positive psychology, in the invisible correct cognition of psychology, so as to have a healthy psychology. Finally, vocational colleges should build positive psychology files, analyze and input the psychological status of college students, and further have an accurate cognition of the psychological transformation of college students [2].

4. INFILTRATE TEACHING IDEOLOGY, STRENGTHEN EDUCATIONAL GUIDANCE

To integrate positive psychology students into the management process of college students in higher vocational colleges, firstly, we should make students clear the central meaning and connotation of positive psychology. Positive psychology has strong generality and abstractness, which is relatively difficult for college students to understand in the process of learning. In teaching, teachers can explore the content of positive psychology in relevant subject textbooks, so as to integrate positive psychology into teaching. At the same time, for higher vocational colleges, it is necessary to create a good campus atmosphere to influence the psychological state of college students. Vocational colleges can also spread positive psychology knowledge to college students on campus in the form of blackboard newspaper or radio, so as to influence students imperceptibly.

5. BUILD A GOOD RELATIONSHIP BETWEEN TEACHERS AND STUDENTS, UNDERSTAND THE PSYCHOLOGICAL PROBLEMS OF STUDENTS

Teachers in higher vocational colleges should pay attention to building good teacher-student relationship during the management of college students. Therefore, the teacher-student relationship will have a direct impact on the quality of college student management. the current teaching form is different from the traditional teaching form. the traditional teaching form is rigid and the teacher is the main leader and has a certain sense of distance from the students. Lack of attention to students' mental health. And with the development of our society, the continuous reform of education, resulting in great updates and changes to the way of management of college students. If teachers want

to effectively build a good relationship with college students, they should put themselves in the same position as college students and make friends with them. Before carrying out the management of college students, they can interact and communicate with college students, so as to build a mutually respectful relationship between teachers and students. the harmonious and benign relationship between teachers and college students can make college students effectively remove their own bad psychological influence and resistance psychology, but also make college students have good self-esteem. Due to the different physical and mental development of college students and their abilities, this phenomenon may cause some college students negative emotions, from the bottom of their hearts that learning is not important, and thus lack of motivation to learn. In view of such phenomenon, teachers should find out the problems in college students' study and life according to their specific situation, so as to enlighten them accordingly, so as to make college students clear their perplexities and problems and better study and life [3].

6. CONCLUSION

In general, the integration of positive psychology into the management of college students has the effect of encouraging and motivating college students. Therefore, the integration of positive psychology has gradually become a key way for higher vocational colleges to manage college students. For teachers concerned, they should be familiar with and control the content of positive psychology, and recognize the psychological situation of college students through diversified forms. And carry on the corresponding enlightenment, so as to promote the comprehensive development of college students in learning and growth.

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An Analysis of the Path for College Students to Inherit Chinese Excellent Traditional Culture from the Perspective of New Media

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Abstract: From the perspective of new media, this paper discusses the inheritance path of college students to the excellent traditional Chinese culture. First, analyzes the new media influence on traditional culture heritage, then, analyzes the new media under the era of the college students' inheritance and development of Chinese excellent traditional culture problems and challenges, finally, put forward the college and college students with new media the carrier inheritance and development path of Chinese excellent traditional culture.

Keywords: New media; Traditional culture; College students; Inheritance path

1. INTRODUCTION

China is a country with a long history and splendid culture. China's fine traditional culture is extensive and profound, and it is a treasure of the Chinese nation. With the continuous development of the Internet, TikTok, Kuaishou and other new media continue to emerge. the communication network technology in the 5G era has created convenient conditions for the development of new media such as mobile short video. College students are the most extensive and active group in the new media environment, and mobile short video has become a part of college students' life. However, with the rapid development of new media technology and the influence of foreign multicultural invasion, the college students are also facing new challenges and problems for the inheritance and development of the excellent traditional Chinese culture. College students are the future and hope of the motherland, the most important participation group in the new media era, and the main force for the inheritance and development of Chinese excellent traditional culture in the new media era, and play an important role in promoting the re-development and re-creation of Chinese excellent traditional culture under the new situation. How college students inherit and develop the excellent traditional Chinese culture through new media as a carrier, so as to enhance national pride and national confidence, is the responsibility entrusted by the Times, and also a topic that higher educators need to study and solve.

2. THE INFLUENCE OF NEW MEDIA ON THE INHERITANCE OF TRADITIONAL CULTURE

2.1 Promote the publicity and promotion of traditional culture.

The new media platform provides a wide range of communication channels, enabling people to quickly

and conveniently acquire the knowledge of excellent traditional Chinese culture. With the help of the new media platform, more sharing can be realized, so that more people can understand, accept and love the traditional culture.

2.2 Enrich the expression form of traditional culture.

New media provides a variety of forms, such as video, audio, pictures, text, etc., which make the expression forms of traditional culture more vivid, vivid and diversified, and spread among the public in a more popular way.

2.3 We will expand the space and ways of inheriting traditional culture.

Mobile short video and other new media, mainly characterized by their convenience and speed, provide more opportunities and platforms for the inheritance of traditional culture, so that inheritors can spread and communicate through the network, mobile devices and other ways, and more conveniently promote and inherit traditional culture.

2.4 Strengthen the public's attention to and research on traditional Chinese culture.

New media makes the traditional culture more widely recognized and concerned, which enables more scholars to study the excellent traditional Chinese culture in the era of new media, and at the same time, it provides more data sources and research means for the inheritance, development and research of traditional culture.

3. THE PROBLEM FACED BY COLLEGE STUDENTS IN INHERITING THE EXCELLENT TRADITIONAL CHINESE CULTURE IN THE NEW MEDIA ERA

3.1 Cultural identity reduced

New media era information explosion, young people affected by the impact and influence of various cultures, many college students pay more attention to the present more popular affairs, such as in the real society more tend to western culture, for Christmas, valentine's day and other western festivals show strong emotional demand, especially for college students are "new media original residents", like to promote western culture on the Internet, traditional culture in the status gradually reduced. College students may feel strange when exposed to traditional culture, and lack a sense of identity with traditional culture, so they are unwilling to learn and inherit it.

3.2 Lack of cultural education

Many college students in the school to accept cultural education content is too single, college traditional

culture education in the form of humanistic quality or elective courses, and students pay more attention to their professional skills, for traditional culture humanities or elective courses learning consciousness is not strong, no active consciousness, lack of deep understanding and mastery of the traditional culture. This also makes them encounter many difficulties in inheriting the excellent traditional Chinese culture.

3.3 Lack of effective inheritance mechanism

The inheritance of traditional culture needs effective mechanisms and ways. But in the era of new media, the popularity of social networks has had a huge impact on people's lives, making young people more inclined to communicate in social networks, while ignoring the practice of traditional culture in reality. For young people, the traditional way of inheritance may no longer meet the needs of young people. College students need more open and diversified ways and platforms for inheritance, such as social media and the Internet to spread and communicate.

3.4 Lack of participation and support of inheritors

The inheritance of traditional culture needs more attention and support, but in reality, the number of inheritors is not large, and the way of inheritance is relatively single. College students need to receive more guidance and support from the inheritors, innovate the ways of inheritance, and let more young people accept and recognize them, so as to better inherit and carry forward the excellent traditional Chinese culture.

4. THE INHERITANCE PATH OF COLLEGE STUDENTS' TO CHINESE EXCELLENT TRADITIONAL CULTURE

4.1 Hold colorful campus activities and innovate ways of inheritance

4.1.1 Open traditional culture courses and seminars

Colleges and universities can offer courses on traditional culture and humanities, set up compulsory courses and elective courses, and invite experts or scholars from relevant industry associations to organize seminars on traditional culture courses, so that college students can have a deeper understanding of the excellent traditional Chinese culture. Through traditional culture courses and seminars, college students can systematically learn the history and connotation of traditional culture, and at the same time, they can also communicate and discuss with experts and scholars and other students who are interested in inheriting traditional culture, so as to cultivate their sense of identity and interest in traditional culture.

4.1.2 Organize traditional cultural activities

Colleges and universities can hold some traditional cultural activities, such as calligraphy competitions, tea art performance, traditional music performance, etc., so that college students can personally experience and understand the charm of traditional Chinese culture in the activities. Through these activities, college students can enhance their interest in and love for traditional culture, and also enhance their communication and friendship between each other.

4.1.3 Establish traditional cultural associations or organizations

Colleges and universities can establish traditional cultural associations or organizations, so that college students who are interested in inheriting traditional culture can have a platform for exchange and study. Through associations or organized activities, college students can have a deeper understanding of and inheritance of the excellent traditional Chinese culture, and can also make like-minded friends.

4.2 With new media as the carrier, expand the communication channels of excellent traditional Chinese culture

4.2.1 Establish a new media platform for traditional culture

Colleges and universities can establish traditional culture new media platform, such as TikTok account, WeChat public, the official website, etc., form a new media matrix, establish school new media management mechanism, set up management, effective operation of campus new media platform, innovative operation mode, to more meet the psychological needs of modern college students' way to promote Chinese excellent traditional culture, through the introduction of Chinese excellent traditional culture, traditional culture related news, activities, etc., let college students understand and learn traditional culture, attract more young people to understand and pay attention to traditional culture. At the same time, colleges and universities can invite experts and scholars to write articles related to traditional culture to provide college students with more professional and in-depth knowledge of traditional culture

4.2.2 Use digital technology to promote traditional culture

Universities can use digital technology to promote traditional culture. For example, virtual reality technology can be used to show the art and skills of traditional culture, or digital platforms to make short videos of traditional culture. Through the application of digital technology, traditional culture can better enter the life and study of college students.

5. CONCLUSION

From the perspective of new media, this paper discusses the inheritance path of college students to the excellent traditional Chinese culture, explore the establishment of an education mode with distinctive new media characteristics based on communication and guidance, help college students to establish the consciousness of correct understanding, active learning and consciously inheriting the excellent traditional Chinese culture, and actively become the practitioners and practitioners of the excellent Chinese culture.

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Research On the Social Practice Activities Of "Three Rural Areas" For Voluntary Education in Aesthetic Education

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Abstract: Education is the foundation of the country. After the 21st century, our country emphasizes on cultivating the youth's comprehensive quality. Under the national strategy of rural revitalization, the activity of "sending aesthetic education to the countryside" has become a practical form of balancing educational resources. This paper discusses the social practice activities of the "three rural areas" of aesthetic education for reference.

Keywords: Aesthetic education; Three go to the countryside volunteer teaching activities; Social practice

1. INTRODUCTION

Rural volunteer education has become a popular social practice activity. On the one hand, it can provide help for primary and secondary education in poor areas; on the other hand, it is conducive to increasing the social practice experience of volunteer education personnel and cultivating their sense of responsibility. Guidance documents issued in recent years point out that art subjects will be the focus of education reform, while promoting the reform of art education in rural areas will be a difficult task. Therefore, it is of great significance to study this subject.

2. PRESENT SITUATION AND SIGNIFICANCE OF RURAL AESTHETIC EDUCATION SUPPORT EDUCATION

The poor areas are mainly rural areas and mountain areas. Besides environmental reasons, the low level of productivity is also the reason that makes the poor educational resources in the poor areas. In rural areas of China, people are influenced by deep-rooted traditional ideas that cultural education is the most important, so they ignore the aesthetic education of students, and even sacrifice aesthetic education to cultural courses. In addition, due to the low level of education in rural areas, many parents do not realize the important role of art courses such as art and music in the growth of children, resulting in insufficient family aesthetic education for children.

Rural education plays an important and positive role in promoting the development of rural productive forces, and aesthetic education, as an important part of rural education, has an irreplaceable impact on students. With the improvement of people's living standard, they have begun to pursue spiritual culture while satisfying material life. Similarly, rural residents' demand for aesthetic education is also growing. However, due to

differences in aesthetic consciousness, most rural residents fail to realize the beauty of their hometown. As a result, local folk culture and scenic spots are ignored and cannot be developed, utilized and protected. Therefore, the development of rural aesthetic education can not only enrich people's spiritual life, but also affect local industries and promote the construction and development of local villages [1].

3. THE IMPLEMENTATION MEASURES OF RURAL AESTHETIC EDUCATION VOLUNTEER TEACHING PRACTICE ACTIVITIES

3.1 Aesthetic education propaganda

When carrying out rural aesthetic education propaganda activities, try to choose the densely populated areas, so that more people can understand the propaganda content. the content of the propaganda can be started from aesthetic education policy, combined with the explanation of ecological beauty, natural beauty and folk beauty, so as to gradually arouse villagers' interest in aesthetic education. At the same time, local cultural resources can also be combined with the rational use of local specialties during the propaganda content, so that villagers can understand the knowledge and ideas related to aesthetic education. For example, the use of straw woven exquisite handicrafts. Making straw into exquisite handicrafts can not only help villagers understand the idea of aesthetic education from hands-on practice, but also reduce the environmental pollution caused by burning straw. While teaching aesthetic education to villagers, attention should also be paid to improving the villagers' cognition of natural folk beauty in their hometown, viewing the natural resources in their hometown from a new perspective, guiding villagers to spontaneously protect the natural ecological environment, and promoting the healthy development of rural aesthetic education construction.

3.2 Explore the new model of rural aesthetic education teaching

When teaching by volunteer teachers, the teaching method combining natural environment and classroom knowledge can be considered, so that students can be in the natural environment and feel the natural aesthetics personally. When teaching the course, volunteer teachers can start from the Angle of ecological beauty and natural beauty. If students cannot understand well, they can help them to imagine nature from a pictographic perspective, and then guide them to understand the beauty in nature from the perspectives of

color and structure in the natural scene, so that they can learn to use a new aesthetic perspective to look at the surrounding environment and feel the unique charm of different things. At the same time, it can cultivate students' love for the natural environment and guide them to have the consciousness of protecting the natural ecological environment by centering on the "protection of beauty". After students understand the natural beauty, they can continue to guide students to understand the beauty of customs, beauty of art and other humanistic spirits. Help students develop a good sense of beauty.

For example, in the aesthetic education class, we can choose local plants and flowers, analyze the flowers in different periods, and discover the beauty of nature through observation. At the same time, it can also analyze whether it has economic value, such as medicinal, ornamental, edible and so on. After the analysis of the flowers themselves, it can also be extended to other fields, such as whether the plants grown by the flowers have ornamental value or other economic value, such as medicinal, essential oil aromatherapy, handicrafts, dyes and so on. Not only that, but also combined with the growth characteristics of the plant, extracted from the spirit of educational value, so as to motivate students.

3.3 Build a rural aesthetic education platform

For aesthetic education in rural areas, due to regional reasons, we should not only carry out theoretical education, but also pay attention to the combination of education and practical life. Volunteer teachers can contact with community committees and other management organizations, actively carry out public welfare activities in the local area, rationally utilize local human and natural resources and facilities, build ecological aesthetic education service platforms in combination with local nature reserves, scenic reserves and other environments, and carry out aesthetic education activities with local characteristics according to local conditions. Let people close contact with the beauty, feel the beauty, stimulate people's love and pursuit of beauty, promote the formation of the awareness of protecting the natural ecological environment, but also help to explore the natural scenery and cultural landscape in rural areas, promote the development and development of rural tourism, drive the local market economy to flourish, and achieve the strategic goal of rural revitalization. In addition, after the volunteer teaching activities, it is also possible to build an online communication platform with the help of the Internet to facilitate better communication and achievement display between villagers and volunteers, which can prevent rural aesthetic education from not playing its original role due to the lack of momentum

and other reasons, and promote the sustainable development of rural aesthetic education.

3.4 Promoting the development of rural areas

The cultivation of aesthetic education can not only help protect the local natural ecological environment, but also transform the natural environment into economic advantages such as ecological agriculture, ecological industry and ecological tourism through reasonable exploration and transformation of the rural environment, so as to realize the scientific conclusion that "lucid waters and lush mountains are gold and silver mountains". the development of aesthetic education activities can help rural areas to improve the educational advantages, cultivate the aesthetic sense of the new generation of teenagers, and enrich people's spiritual life. To help improve the level of education and culture in rural areas, promote the development and construction of rural productive forces, promote the healthy development of rural economy, and realize the strategic goals of rural revitalization. At the same time, aesthetic education activities suitable for different regions can be built according to local culture and humanistic customs of different regions, and ecological aesthetic education concept and rural aesthetic education can be organically combined. While helping villagers understand aesthetic education thoughts, villagers can improve their aesthetic level and strengthen their cultural accomplishment and spiritual connotation. It can also help promote the development of rural characteristic cultural industry and tourism, and promote the dissemination and innovative development process of ecological aesthetic education concept [2].

4. CONCLUSION

As a cultural comprehensive quality education, aesthetic education is an important part of humanistic education. Aesthetic education should not be limited to the classroom, but should go to the society and face the masses. Combining aesthetic education and rural ecology can not only improve the spiritual and cultural level of rural people, but also help to explore local characteristics and cultural landscape, which plays an important role in promoting rural economic development and ecological protection.

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Research And Development of New Energy Vehicles in China and Its Prospects

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Abstract: Conventional energy vehicles provide convenience for the society and the people at the same time, but also produce serious pollution to the natural environment, vehicle exhaust contains a large number of sulfur dioxide and particulate matter, these harmful substances in the case of no treatment, directly discharged into the atmosphere will reduce air quality, and even cause acid rain, greenhouse effect and other disasters. With the continuous improvement of people's concept of environmental protection, the development of conventional energy vehicle industry has been limited to a certain extent. On the contrary, new energy vehicles powered by electric energy are vigorously pursued, which shows that new energy vehicles have a very broad prospect for development. In this paper, the research and development of China's new energy vehicles and prospects, launched a detailed analysis and exploration, in order to share and exchange with the majority of people in the industry.

Keywords: New energy vehicle; China automotive research and development; Future outlook

1. INTRODUCTION

Our new energy vehicle research and development started late, but because our country has a huge market, the new energy vehicle research and development process is swift and rapid, and show the good adaptability, scientific and malleable. It is believed that in the near future our new energy vehicle research and development technology, can catch up with and surpass the western countries. At present, the automobile manufacturing industry has become the pillar of our economy and played an important role in promoting the development of our national economy. With the birth and popularization of new energy vehicles, the traditional automobile manufacturing industry has carried out strategic reform strategies one after another. On the basis of manufacturing and production of conventional energy vehicles, the research and development of new energy vehicles have been intensified. Has provided strong support for promoting the development of automobile manufacturing in our country. the author believes that new energy vehicles are the mainstream direction of the future development of the automobile industry, so China, as the country with the largest demand for automobiles, should take a long-term development vision, and constantly improve the manufacturing technology of new energy vehicles, so as to achieve the goal of China's new energy take-off.

2. OVERVIEW OF NEW ENERGY VEHICLES

The so-called new energy vehicles refer to the vehicles that use unconventional vehicle fuel as a power source. Currently, new energy vehicles mainly include the following kinds, hybrid electric vehicles, pure electric vehicles, fuel cell electric vehicles, extend-range electric vehicles, hydrogen engine vehicles, etc. Since new energy vehicles do not use petroleum refining as a power source, they will not produce exhaust gas and pollute the atmospheric environment [1]. With the development of new energy vehicles research and development technology and the enhancement of the people's environmental protection awareness, new energy vehicles production in our country in recent years has shown a sustained growth trend, in 2021 The whole year produced a total of 3677, 000, compared with 2020 growth of nearly 152.5%, successfully ending the new energy vehicle output of our country for three consecutive years negative growth.

3. MAIN TYPES OF NEW ENERGY VEHICLES IN CHINA

At present, in the research and development of new energy vehicles in the field of pure electric vehicles, hybrid electric vehicles, extend-range electric vehicles, hydrogen engine vehicles, etc., each new energy vehicle has a core technology, and there are performance and comfort differences, the following will be a detailed analysis of several new energy vehicles: First, pure electric vehicles. This kind of new energy vehicle needs a battery to provide power source, which mainly stores electric energy in the battery, and then the battery provides electric energy for the motor, and successfully drives the motor to operate. That is to say, battery is the core technology of pure electric vehicles, and ensuring the reliability, safety and efficiency of batteries is crucial to promoting the development of new energy vehicles [2]. At present, battery types used by pure electric vehicles mainly include lead-acid battery, nickel-cadmium battery, lithium-ion battery and nickel-metal hydride battery, etc. After long-term research and practical application, the technical level of these batteries has reached the standards of new energy vehicle manufacturing, so the battery is still the core technology of new energy vehicles in the future development. Second, hybrid cars. Generally speaking, the combination of electric power system and oil power system is common. Oil power system can save energy for electric power during vehicle operation. Of course, two power systems can also be used at the same time. It can also achieve certain goals of energy saving, emission reduction and environmental protection.

4. CHINA'S NEW ENERGY VEHICLE RESEARCH AND DEVELOPMENT PROCESS

China's new energy vehicles are characterized by late start and fast development. Especially in recent years, China's new energy vehicles have become the world leader in both the quantity of vehicles and the research and development technology of new energy vehicles, which shows that China has great momentum in the research and development of new energy vehicles. From the perspective of China's new energy vehicle research and development process, it can be divided into several different periods or stages, and the specific analysis is as follows: First, the "Tenth Five-Year Plan" major electric vehicle project. This stage belongs to the initial stage of China's new energy vehicle research and development. In the case of the backward technology of traditional fuel vehicle, China has put forward to vigorously develop electric vehicles nearly at the same starting line, and gives high hopes for electric vehicles to occupy the commanding heights of a new round of industrial competition. In fact, there is still an obvious gap between China's electric vehicle research and development technology and that of western developed countries. However, it cannot be denied that the "Tenth Five-Year Plan" period opened a good beginning for the development of new energy vehicles in China. It was the beginning of the first organized and large-scale research on new energy vehicle technology in China, which laid a solid foundation for the development of new energy vehicles in China. In addition, during the "tenth Five-Year Plan", national research funds are injected into the field of new energy vehicle research and development. More than 200 research institutes, universities and enterprises have been formed throughout the country, and more than 2000 key players of new energy vehicle technology research and development have been brought together, which has an important strength for the development of new energy vehicles. Second, the "eleventh Five-Year" energy-saving and new energy vehicle major projects. At this stage, on the basis of the "Tenth Five-Year Plan" of new energy vehicle research and development, a new concept of energy saving for new energy vehicles was put forward, and great research and development achievements were obtained in technology. Among them, "hydrogen energy and fuel cell technology" is a new energy-saving technology developed at each stage, which broadens the road for the development of new energy vehicles in China. In response to the "eleventh Five-Year" strategic development goals, our country has further increased R&D funds in the field of new energy vehicles research and development, and expanded the team of new energy vehicle technology research and development, such as the domestic vehicle and parts enterprises or research institutions, as many as 432 units and 14, 600 scientific

researchers. Third, the "12th Five-Year" key project of electric vehicles. At this stage, China's new energy vehicle research and development rose to the national strategy, that is to say, new energy vehicles ushered in the opportunity of rapid development, which set up a take-off board for the development of new energy vehicles in the field of our country. the 12th Five-Year Plan period is the outbreak of domestic invention patents for new energy vehicles. According to the relevant survey data, in 2015, we applied for more than 1000 domestic invention patents, which successfully helped the industrialization of new energy vehicles to become the first place in the world.

5. FUTURE PROSPECTS OF CHINA'S NEW ENERGY VEHICLES

New energy vehicles are the direction of the future development of automobile enterprises, so automobile enterprises should increase the investment in the research and development of new energy vehicles, more to learn and learn from foreign advanced technology of new energy vehicles, while protecting the core technology of their own enterprises of new energy vehicles, only in this way can continuously improve the manufacturing level of China's new energy vehicles. the author believes that the future outlook of China's new energy vehicles still needs to focus on technology research and development, which needs to create a good technology research and development environment and conditions under the leadership and support of the country, so as to provide strong support for the development of China's new energy vehicles.

6. CONCLUSION

To sum up, Chinese new energy vehicles have advantaged development conditions, so Chinese traditional automobile enterprises should accelerate the process of strategic transformation, and increase the support of research and development of new energy vehicle technology, aimed at promoting Chinese new energy vehicle technology level, which is the prospects and expectations for the development of Chinese new energy vehicles.

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Innovative Research on the Effective Integration of Ideological and Political Education and Student Management in Colleges and Universities

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Abstract: The integration of ideological and political education and student management becomes the main guarantee in order to strengthen the competitiveness and comprehensive level of talent team in our country. At present, ideological education and student management in colleges and universities are not closely integrated, the system is not perfect, and the management mode is too single, which leads to the students' main body status can not be truly reflected. Therefore, under the new situation, we should innovate the effective integration of ideological and political education and student management in colleges and universities, effectively stimulate the initiative and enthusiasm of students, improve the comprehensive ability of teachers, and lay a solid foundation for the comprehensive integration of the two to achieve the cultivation of high quality talents.

Keywords: Colleges and universities; Ideological and political education; Student management; Integration; Innovation

1. INTRODUCTION

Colleges and universities are important stages of life development, maintaining efficient cognitive ability and fresh vitality to the society, so colleges and universities are the key period to cultivate students' ideological consciousness and moral quality. Colleges and universities should pay more attention to the ideological and political education of college students, which is of great significance not only to the healthy growth of college students, but also to the improvement of students' national ideology and comprehensive quality. In spite of this, ideological and political education in colleges and universities is a systematic and complicated education project. With the continuous advancement and development of the social and economic level, the ideological and political education ideas of colleges and universities have changed a lot. More and more attention is paid to the all-round development of students, to meet the social needs and the strategy of strengthening the country with talents. In order to cultivate the comprehensive assistance of college students, we need a lot of assistance and support to accelerate the integration of ideological and political education and student management in colleges and universities.

2. THE ESTABLISHMENT OF IDEOLOGICAL AND POLITICAL CURRICULUM SYSTEM

In the process of teaching professional courses, colleges and universities pay special attention to the effective integration of ideological and political education, take ideological and political education as the main body, and other professional courses to help strengthen the construction of a large ideological and political curriculum system, so that the scope of ideological and political education is increasingly expanded, constantly highlight the ideological guidance and political attributes of ideological and political education, promote the teaching situation of various courses and gradually strengthen the ideological and political force [1]. Ideological and political education content is often based on philosophy, and Marxist ideas correctly guide ideological and political courses to carry out work, so that the content of ideological and political education is more and more rich, and the content is gradually optimized. In addition, the university adheres to the educational concept of "cultivating virtues and talents", comprehensively implements the education system of different majors in colleges and universities, and establishes the "three Perfections" education system. Most of them excavate ideological and political elements from different professional disciplines, take Marxist theory as the guiding direction, excavate and extend the social elements, ideological values and other contents involved in professional courses, effectively establish correct core values, promote the common development of ideological and political education objectives and philosophy and social teaching concepts, and fully demonstrate its comprehensiveness, comprehensiveness and integrity. Moreover, the construction of a large ideological and political curriculum system pays special attention to the edification of culture and the scientific guidance of value, and expands the space for the development of "three talents", which is conducive to the integration of teaching platforms and teaching resources in colleges and universities, allowing more professional teachers to participate in the ideological and political curriculum reform, and promoting the integration of the two with the help of sound curriculum education.

3. WE WILL IMPROVE THE WORKING MECHANISM FOR COLLABORATIVE MANAGEMENT

The pattern of ideological and political work is to achieve effective integration of student education and management, and to build a perfect coordination and management mechanism to promote the orderly progress of education work. Colleges and universities, as the main front of social basic education, constantly emphasize that each teacher takes the "moral cultivation" as the educational concept, as the important responsibility of teaching and education, whether the administrative departments or teaching units should form a good coordination and management consciousness, each play a role in the professional, greatly improve the ideological and political education work effect. Therefore, colleges and universities should strengthen the promotion and publicity of ideological and political education, correctly guide teachers and students to experience the working atmosphere of ideological and political education, take ideological and political counselors as the main body, establish an excellent ideological and political education work team, innovate student management methods and models, and purposefully infiltrate ideological and political education concepts in the daily education and management process [2]. In the process of daily dealing with students' affairs, we should actually test the effect of ideological and political education, strengthen attention to the daily practice activities of ideological and political education, expand the scope of ideological and political education day by day, and form a collaborative education mode of colleges, families and society. In addition, colleges and universities take counselors as the main body to establish a high-quality student management team, specifically to do a good job in the daily education and management of students as the core, and effectively play their role. As the director and executor of ideological and political education, the daily student management work as the entry point, actively using digital means to effectively penetrate ideological and political education. With the rapid development and progress of science and technology, people's way of obtaining information has undergone earth-changing changes. As one of the main objects that often contact college students, ideological and political mentors, considering students' preferences and psychological changes, orderly carry out ideological and political education infiltration work. In essence, the purpose of ideological and political education is to help students establish correct ideological and moral qualities, shape good core values, fully reflect the obvious modernization and advanced characteristics, and make reasonable guidance to the ideological consciousness of college students. Therefore, ideological and political counselors and other groups should continue to learn information technology, master and apply advanced network technology, discover the development and changes of the Internet, and timely communicate with college students in a friendly way to

narrow the communication relationship between them. On this basis, learn to skillfully use wechat, QQ, Weibo and other new media software, imperceptibly infiltrate ideological and political education, constantly influence students' thoughts and behaviors.

4. BUILD AN INFORMATION PLATFORM FOR TEACHING MANAGEMENT

In the process of carrying out educational practice activities in colleges and universities, in order to accelerate the effective integration of ideological and political education and student management, greatly improve the ability of ideological and political education and student management. In order to achieve this goal, it is particularly important to rely on a variety of teaching strategies and management methods. In the new era, with the rapid development and progress of the media industry, in order to enhance the effectiveness of student teaching management, it has become an inevitable trend to innovate the model of student teaching management, actively use information technology to build a perfect teaching management information platform, and further show the application value of student archives and other information resources. Through the student teaching management information platform, we can fully understand the basic information of each student in the class, predict their future development trend, and give full play to its application value. For the personalized problems existing in ideological and political education, ideological and political teachers can take the initiative to communicate with students in a friendly way by means of the student teaching management platform, greatly improve the efficiency of teaching information sharing, accurately grasp the ideas and feedback of students, and better guarantee the level and quality of ideological and political education [3].

5. CONCLUSION

From the perspective of the overall situation, colleges and universities integrate ideological and political education with student management, provide students with high-level services, promote their all-round development, and send more outstanding talents to the society. In spite of this, for the current development situation of colleges and universities, there are many problems in the effective integration of ideological and political education and student management, which still need to be comprehensively analyzed and discussed, focusing on the breakthrough of the integration of the two, to find the corresponding integration measures and methods. Although the integration of the two is not achieved overnight, with the passage of time, colleges and universities continue to emphasize the principal position of students in the process of ideological and political education and student management integration, accelerate the comprehensive development of students.

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Exploration Of Teaching Mode of Higher Mathematics Education Under the Background of New Development Concept

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Abstract: the new development concept serves as the guiding principle for national development in the modern era, and the cultivation of innovative talents is an indispensable element of national progress. This can be achieved through five key aspects, namely promoting learning through competition, group learning, small tutor system, internal and external linkage, and resource construction. Integrating the new development concept into higher mathematics education involves incorporating it into teaching methodologies and highlighting its significance in guiding the teaching process.

Keywords: New development concept; Education and teaching; Advanced mathematics

1. INTRODUCTION

Xi Jinping introduced the new development concept during his speech at the second meeting of the Fifth Plenary Session of the 18th Central Committee of the Communist Party of China on October 29, 2015. the concept embodies the principles of innovation, coordination, green development, openness, and sharing. It serves as a strategic guideline to address the pressing issues and challenges faced by China. Advanced mathematics, as a core compulsory subject in science and engineering curricula, is not only a tool for learning subsequent professional courses, but also plays a crucial role in cultivating students' mathematical thinking, problem-solving skills, and ability to apply mathematical perspectives to science and engineering contexts. Hence, integrating the new development concept into higher mathematics education is essential for enabling students to learn with high quality and efficiency, and for promoting the practical implementation of the new development concept. This poses a challenge for teachers to bridge theory and practice in the classroom, ensuring that students grasp the concept and apply it effectively in their studies.

2. PROMOTR LEARNING THROUGH COMPETITION AND DEVELOPMENT THROUGH INNOVATION

Innovation is the soul of a nation's progress, innovation and development focuses on the

problem of development power, in the higher mathematics classroom not only to pass on the basic theories, basic methods to students, but also to explore and stimulate the inner potential of students as much as possible, on the one hand, interspersed with the introduction of mathematical software in the teaching process, such as after the calculation of limits, derivatives, integrals, you can demonstrate how to use MATLAB to get results very quickly in the classroom, and then let students learn by themselves after class MATLAB software and communicate with each other, so that mathematical software can be used to solve real problems. On the other hand, actively guide students to participate in mathematics competitions, mathematical modeling competitions and fast calculation competitions, in the after-school homework tasks, students can form teams to challenge the mathematical modeling topics of college students in previous years, or assign some students "reachable" college mathematics competition questions or postgraduate examination questions, on the one hand, the participation in the competition can "promote" some students, strengthen the profound mathematical foundation, provide support for students to further study in postgraduate entrance examination, on the other hand, it can also improve students' ability to solve applied problems. At the same time, in the process of competition, students can also fully display their talents, let students feel the satisfaction brought by their hard work, enhance the sense of self-worth, cultivate students' teamwork spirit, assiduous study, the ability to tackle problems head on, and the quality of challenging and innovative awareness, innovative thinking and innovation ability [1] and deeply tap the inner potential of students!

At the same time, the school should build an innovation laboratory for students, the cultivation of innovation is inseparable from hardware as the foundation, the establishment of innovation platform, can systematically focus on cultivating students' innovative thinking and strengthen the cultivation of innovative personality, so that

students in the innovative environment to maintain a strong motivation to seek knowledge.

3. GROUP LEARNING AND COORDINATED DEVELOPMENT

Coordinated development focuses on the problem of unbalanced development, because the capacity of public basic classes is large, teachers are not easy to manage, it is difficult to pay attention to every student, so student management adopts group management, the group leader is responsible, and after the end of each section and chapter, each group independently constructs a mind map for each section and chapter, so that students can improve their understanding of knowledge and improve the ability of independent learning; the members of the group supervise each other's mastery of formulas and basic methods, such as derivative formulas, integral formulas and methods of derivation and integral. Ensure that each student follows the team and masters the basic theory; After the end of each module, each group reports the understanding of the module, scoring between groups, scoring by teachers, as part of the usual grades, students do it themselves, what they say must be the most profound memory, the group learning mode fully reflects "student-centered", so that students' learning of the course is coordinated and balanced development, and at the same time can enhance students' teamwork spirit. At the same time, students are encouraged to actively participate in special lectures, the school will arrange a series of lectures by famous teachers in advanced mathematics every semester, and at the same time will be webcast, famous teacher lectures will not only summarize knowledge, methods, skills, expand the depth and difficulty of knowledge, but also guide students to actively study the course, and even actively learn all courses of the university, so encourage each student to actively participate, through the study of the lecture, students can not only comb out the knowledge of related modules, close loopholes, but also have a deeper understanding of the knowledge of the module. At the same time, it broadens mathematical thinking, improves the initiative and effectiveness of learning, and high-quality special lectures can solve the problem of unbalanced development of learning in various professional classes to a certain extent.

4. THE SMALL TUTOR SYSTEM, GREEN DEVELOPMENT

Green development in education reflects a healthy and green ecological development environment between teachers and students [2]. first of all, the school should create a good teacher teaching environment and student being taught environment for students, as well as an equal and harmonious teaching atmosphere, from the aspect of teacher development, for new teachers, arrange

experienced teachers to "pass, help, lead" guidance, so that new teachers can quickly improve their professional level and the ability to control the classroom, and be competent for the work in the short term. At the same time, the role of role models allows new teachers to have goals and directions to work towards; From the aspect of student development, small tutors can be arranged for each group of students, so that each student can pay special attention, solve problems efficiently when students have problems and need the help of teachers, arrange students with good grades to study in pairs for backward students, tutor and urge backward students to move forward, eliminate the phenomenon of polarization, help each other between teachers and teachers, teachers and students, and students to effectively improve the quality of education.

At the same time, in the classroom teaching, the teaching methods of inquiry, heuristic, hybrid and flipped classroom are adopted, from teaching as the center to student learning as the center, from knowledge classroom to inquiry classroom, so that students can learn from passive to active learning, let the classroom "live", strengthen the interaction and communication between teachers and students. the exchange and collision of ideas between teachers and teachers, students and students, teachers and students make teachers and students make progress together, and jointly create a green and healthy learning atmosphere.

5. INTERNAL AND EXTERNAL LINKAGE, OPEN DEVELOPMENT

The open development of teaching is reflected in the mutual exchange and reference with colleges and universities, from the aspect of open development of teachers, on the one hand, you can invite relevant experts at home and abroad to give lectures and share their successful educational concepts, teachers listen carefully to learning, and conduct exchanges and discussions, on the other hand, select excellent teachers to other colleges and universities to learn advanced educational concepts, come back to carry out teaching and research activities, explore effective good teaching methods, and apply them to classroom teaching, make classroom teaching higher quality, higher efficiency, today in the era of developed network, Therefore, it can increase the opportunities for online communication, so that college teachers in the background of various educational resources can obtain advanced educational concepts in the first time, so as to effectively carry out classroom activities.

From the aspect of students' open development, on the one hand, invite relevant experts or outstanding graduates to give lectures for students, introduce good learning methods, and serve as role models for students to enhance learning motivation; Secondly, students are encouraged to

participate more in the exchange of competitions between universities and be influenced in the exchange; On the other hand, select outstanding students as exchange students to study in other excellent institutions, and come back to share their experiences with other students, so that good learning methods benefit everyone, and likewise, you can also increase the "having a class together" activity, as well as the opportunities for online communication among students, learn from each other's strengths, so that students at all levels of schools can open their eyes, plan their academic careers well, and enhance students' enthusiasm and initiative to learn and develop towards excellence.

6. RESOURCE CONSTRUCTION AND SHARED DEVELOPMENT

The uneven distribution of educational resources in colleges and universities at different levels and regions in China is more serious, and the utilization rate of educational resources is low, only by actively promoting the sharing of educational resources in colleges and universities can solve the problem of shortage of educational resources and insufficient quality, and in today's situation of developed information technology, information technology can be used to promote the sharing of resources [3]. On the one hand, teachers are encouraged to build their own curriculum resources, and good resources are published on the Internet, so that other teachers and students can learn from them, on the other hand, they make good use of other good online teaching resources to achieve the sharing of high-quality resources, and recommend excellent online courses and WeChat public accounts to students under the classroom, so that students can receive the best quality educational resources no matter which school they are in, so that students can fully develop.

7. CONCLUSIONS

This paper introduces the importance of integrating the five new development concepts of innovation, coordination, green, openness and sharing into higher mathematics education

teaching from five aspects: promoting learning through competition, group learning, small tutor system, internal and external linkage, and resource construction. In essence, the five new development concepts promote each other and influence each other, and the integration of the new development concepts helps cultivate new-age talents with strong innovation ability, high quality, an open mind and super competitiveness.

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The Teaching Research and Practice of Information Security and Big Data Major Postgraduate Curriculum Ideology and Politics

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Abstract: At present, the teaching reform of "curriculum ideology and politics" is mainly practiced at the undergraduate education stage, and there are relatively few discussions on "curriculum ideology and politics" related to professional degree graduate students. the teaching reform of "curriculum ideology and politics" for professional degree graduate students has the general characteristics of "curriculum ideology and politics", and also has certain uniqueness due to the differences in the training links of professional degree graduate students. As a higher intermediate level of higher education professional degree graduate education, ideology and politics are still a very important part of education and cultivation. "Curriculum Ideology and Politics" can rely on the main channel of professional courses, on the basis of following the laws of moral education, combined with the spiritual characteristics and value pursuit of professional degree graduate students, to carry out a more operational and effective collaborative education model. It mainly explores the moral education system, program, implementation path and law of professional degree students in information security and big data professional courses, and explores socialist values such as patriotic dedication related to the cultivation of discipline talents, the spirit of craftsmen in big countries such as daring to innovate, the scientific spirit such as seeking truth from facts, and the elements of the curriculum ideology and politics.

Keywords: Information Security, Big Data Major, Degree Graduate Students, Curriculum Ideology And Politics

1 INTRODUCTION

The main problems of integrating "curriculum ideology and politics" into the cultivation curriculum system of professional degree graduate students are as follows:

(1) It is a serious phenomenon that "curriculum ideology and politics" for graduate students are too straightforward

The teaching of professional courses is directly interspersed with elements of ideological and political education, and frankly instilled in

students, so that professional courses can have a "ideological and political flavor". This practice inverts the explicit nature of curriculum setting and the implicit nature of the play of ideological and political education function, does not immerse moral education in the carrier of curriculum knowledge, and cannot be transmitted to students naturally.

(2) It is a serious phenomenon that "curriculum ideology and politics" for graduate students are too formalized

The blunt use of curriculum resources in professional courses and the simple and crude imitation of other similar courses are all concrete manifestations of formalism in the teaching reform of "curriculum ideology and politics". the implementation of "curriculum ideology and politics" teaching should deeply explore the moral education resources of professional courses and other teaching links, so as to make proper use of them and avoid rigid applications.

(3) the role of professional degree graduate tutors in the teaching practice of "curriculum ideology and politics" is not obvious

As the first responsible person for student training, professional degree graduate tutors play an important leading role in improving students' ideological and political quality, enhancing students' sense of social responsibility, and guiding students to abide by academic ethics. In recent years, some supervisors have paid more attention to students' scientific research workload and the number of papers, neglected the cultivation of students' moral character, and failed to play a good role in guiding academic ethics. the tutor's respect for science and rigorous learning is the most direct example of teaching by word and deed, and it is also a concrete embodiment of the whole process of "curriculum ideology and politics" education.

2 SPECIFIC MEASURES

The overall study of the ideological and political system of information security and big data professional courses, the professional curriculum ideology and politics connotation, the Curriculum ideology and politics elements of the courses, the curriculum ideology and politics presentation of

the courses, the curriculum ideology and politics content of the course materials, the curriculum ideology and politics methods of the second classroom, etc., have become the demonstration center of the curriculum ideology and politics, professional curriculum ideology and politics construction design base, the ideological and political resource sharing platform of the curriculum and the case center of the ideological and political courses of the classroom, so as to improve the talent training ability and talent training quality of the college. the main contents include:

(1) Do a good job in top-level design: scientifically plan and design the system of the curriculum ideology and politics, and steadily promote the development of various work.

(2) Carry out teacher training: carry out curriculum ideology and politics teacher training in a planned and step-by-step manner, and strengthen the capacity building of teachers' curriculum ideology and politics education.

(3) Organize exchange and seminars: organize and carry out curriculum ideology and politics research and academic exchange activities at the professional level, curriculum level, classroom level, teaching material level and second classroom inside and outside the school, and produce a series of research results.

(4) Improve the evaluation mechanism: improve the curriculum ideology and politics evaluation mechanism of the curriculum and strictly implement it, and strengthen the supervision and management of the curriculum ideology and politics construction.

(5) Play an exemplary role: promote the experience and practice of the curriculum ideology and politics construction, continue to deepen the achievements of the curriculum ideology and politics teaching, and build a model course group in a planned manner.

3 CONCLUSIONS

Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era and the spirit of the 19th National Congress of the Communist Party of China, this paper takes the fundamental task of "cultivating people with virtue" as the core, grasps the "main force" of the teaching team, the "main battlefield" of curriculum construction, and the "main channel" of classroom teaching, so that all kinds of courses of professional degree graduate students and ideological and political courses go in the same direction, implement the moral education work of professional degree graduate students into the overall design of various courses, form a synergistic effect, and strive to build a new pattern of comprehensive education characterized by "five ways of education work together" and "adhere to

the whole-staff, whole-process, all-round education". Find the support points of the positions, viewpoints and methods of ideological and political courses from the professional degree graduate course system, form bridges one after another, and effectively expand the teaching boundaries of ideological and political theory courses with positive or lateral confirmation methods. Through innovating the concept of ideological and political education, we will take the initiative to change our thinking, fully tap and enrich the ideological and political education resources of various courses, and promote the organic integration of various courses, including general education courses and professional courses, with ideological and political education, so as to expand the connotation and extension of ideological and political education, and realize the great ideological and political situation of coordinated education, overall education and development of education. Contribute to the cultivation of outstanding professional degree graduate students in the new era.

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Exploration on the Construction of Ideological and Political Teaching of Advanced Mathematics Courses under the Background of "Four New"

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Abstract: "Four New" refers to new engineering, new medicine, new agriculture, and new liberal arts. Its construction concept emphasizes the practicality, intersectionality and comprehensiveness of discipline construction, and its purpose is to cultivate high-level academic and application-oriented innovative talents, and improve the ability of colleges and universities to serve economic and social development. Curriculum ideological and political education is a concept and practical exploration for colleges and universities to integrate ideological and political education into classroom teaching and tap the moral function of curriculum. As a general public basic course in colleges and universities, advanced mathematics covers a wide range of students and has a long teaching duration. It has a very important impact on the quality of personnel training in colleges and universities and the future development of students.

Keywords: Four New; Ideological and Political Curriculum; Advanced Mathematics; Teaching Reform

1 INTRODUCTION

Talent is the foundation of a strong country. In order to cultivate high-level academic and application-oriented innovative talents, Chen Baosheng, Secretary of the Party Leadership Group and Minister of the Ministry of Education, pointed out that from 2019 to 2021, the Ministry of Education will fully implement the "six excellences and one top-notch" plan 2.0 in three years. the "four new" construction concept emphasizes the practicality, cross-cutting and comprehensiveness of discipline construction. Mathematics is a necessary tool and language for all disciplines, the core element of cultivating students' problem-solving ability, and the foundation and guarantee for cultivating outstanding talents. Mathematics Quasi-basic courses are the backbone courses in university courses, and

their teaching quality will affect the quality of undergraduate teaching in colleges and universities, and they have played an extremely

important role in the quality revolution of higher education in the new era.

2 THE NECESSITY OF CARRYING OUT IDEOLOGICAL AND POLITICAL EDUCATION IN HIGHER MATHEMATICS COURSES UNDER THE BACKGROUND OF THE "FOUR NEW"

In 2019, the Ministry of Education and other relevant departments issued the "six excellences and one top-notch" plan 2.0, advocating the development of new engineering, new medical, new agricultural, and new liberal arts, guiding colleges and universities to speed up professional construction and improve the quality of talent training. In order to better develop new Engineering, new medicine, new agriculture, and new liberal arts must strengthen the cross-integration of advanced mathematics and other disciplines to cultivate interdisciplinary talents who understand both majors and mathematics. Freshman students have just entered colleges and universities from local high schools, and their inability to adapt to life can easily make their study status slack. Advanced mathematics is an important basic subject in colleges and universities. Its main purpose is to spread mathematical knowledge theory and objective theory, and cultivate students' rigorous logical thinking and tenacious scientific spirit. the teaching time span of advanced mathematics is long, the influence is great, and the coverage is wide. Its concepts and theorems have the characteristics of "high abstraction", "rigorous logic" and "extensive applicability". Its content implies a wealth of material for ideological and political education for students, which requires teachers to fully explore and use it flexibly [1].

3 THE STRATEGY OF CARRYING OUT IDEOLOGICAL AND POLITICAL EDUCATION IN ADVANCED MATHEMATICS COURSES UNDER THE BACKGROUND OF "FOUR NEW"

(1) Improve the ideological and political level of teachers

Ideological and political education in the new era refers to the "big ideological and political" education that is the "four in one" of political

education, ideological education, moral education, and humanistic quality education. Cultivate people with virtue, take teachers as a model, and teachers establish themselves with morality, learn with morality, teach with morality, and strive to become disseminators of advanced culture and staunch supporters of the party's governance, in order to better serve as guides for the healthy growth of students and the responsibilities of guides. Teachers should have a deep understanding of students' hearts. Teachers do is to spread knowledge, spread ideas, spread the truth of the work, is to shape the soul, shape life, shape people's work, teachers can not only teach the book knowledge of the teacher, and to become the shape of students' character, conduct, taste of the teacher. Use scientific education methods to have psychic interaction with students, move students through emotional integration, and then lighten their hearts. Under the background of the "four new" construction, teachers should be good at combining pedagogy and psychology knowledge with modern educational scientific methods, creating a teaching atmosphere with strong affinity and appeal, improving students' sense of identity and acceptance, and becoming students' excellent educators, life mentors and moral guides.

(2) Reorganize teaching content, innovate teaching methods and means

The compilation of advanced mathematics textbooks should reflect the requirements of the new era, serve the reform of higher education teaching and personnel training, and reflect the accumulation of human cultural knowledge and innovation achievements [2]. In the teaching process, we should make full use of information technology, create a diverse teaching and learning environment, build or use online open courses, offline courses, online and offline mixed courses and other high-quality courses, and implement a mixed teaching mode. the ideological and politicalization of advanced mathematics courses should be based on the principle of combining imparting knowledge with guiding value, further excavating its inherent philosophy and value, acting on students in the classroom, and properly integrating into one or more aspects of socialist core values, excellent traditional Chinese culture education, the "four self-confidence" of socialism with Chinese characteristics, and scientific literacy. In the process of integration, find the right combination point, spring wind and rain, moisten things silently, enter the brain and heart, so as to comprehensively improve students' self-cultivation.

(3) Increase mathematics cases to broaden students' horizons

In teaching, we should adopt the idea of "introducing knowledge into life, using concept to explain the essence, teaching knowledge simply,

and diversifying knowledge application" to design the teaching content of advanced mathematics [3]. A large number of life cases in teaching activities allow students to pay attention to social hot spots, learn to analyze social phenomena, cultivate students' sense of social responsibility, and enhance their sense of mission. For example, in the section on maximum and minimum values of functions, with the design of can, let the students observe the shape of Coke, Pepsi, Sprite, Jianlibao and other beverage companies can, from their same appearance design, tell the students: enterprises should consider using the lowest cost to obtain the highest profit. Therefore, in the design of cans, in addition to considering the beauty of the outer packaging, it is also necessary to consider the least material used, the lowest welding or processing costs, etc., thus introducing the maximum and minimum values. the course can also introduce some social frontier and hot issues, such as the efficiency of automobile engines, the design of airport runways, the design of high-speed rail, etc., so as to enhance students' sense of social responsibility and mission, and contribute to the development of the country.

4 THE TEACHING PRACTICE AND EFFECTIVENESS OF CARRYING OUT COURSE IDEOLOGICAL AND POLITICAL EDUCATION UNDER THE BACKGROUND OF "FOUR NEW"

Since 2019, we have explored the teaching mode of integrating ideological and political elements and adding practical cases in advanced mathematics courses. the University Mathematics Teaching Center has actively carried out teaching material construction, new curriculum revision, teaching design and teaching resource construction, and teaching Some achievements have been made in educating people. By inviting experts to give lectures, conduct teaching demonstrations of practical application cases of "Curriculum Ideology and Politics", and conduct discussions and exchanges, so that all higher mathematics teachers can participate in curriculum ideology and politics, and each class can have practical cases. Teachers have also gradually changed from being puzzled about "Curriculum Ideology and Politics" to full of enthusiasm, actively exploring and practicing in classroom teaching, especially in the implementation process of curriculum Ideological and Political Projects, party member teachers actively take the lead and play a positive role in promoting the ideological and political work in the curriculum. Complete the construction of teaching materials incorporating ideological and political elements and the construction of a practical application case library, as well as the teaching design of the new version of advanced mathematics courses.

In the future, we will pay more attention to students' response to ideological and political education, as well as their practical ability to solve problems, and take students as the center to more effectively promote the construction of higher mathematics "course ideological and political" and practical application case libraries.

5 CONCLUSIONS

Be sensible, put moral education first. the ideological and political education resources of advanced mathematics courses are contained in mathematical knowledge. Teachers need to explore deeply and practice continuously to organically combine "advanced mathematics" with "ideological and political" education, so that students can truly feel the "temperature" of advanced mathematics courses, so as to improve students' interest in learning and contribute to the cultivation of high - quality, compound and cross - type talent.

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Research on field research Methods and Visual Transformation of Art Design

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Abstract: In the rapid changes of the times, many traditional handicraft-based arts lack suitable design promotion Transmission methods have developed to an urgent need for protection, and many folk arts require designers to visit the scene in person Only by understanding and feeling can we create works with rich forms and warmth. With the development of the big data era, various the information about the field research method of art design provides designers with considerable convenience Many of the information is often directly accessible through the internet, but convenient written materials can also lead to many designs Leaping directly from the first step of mastering data to the last step of designing a work, the behavior of field investigation itself is lost De-interest leads to the drawbacks of being superficial and superficial in creation, which cannot truly solve practical problems. Information visualization design, as one of the expression methods of today's display information, can use visual language and Diverse media can effectively enhance viewers' reading interest and profound memory, thereby influencing their behavior.

keyword: Field research; Visual transformation; College Student; Art and Design

INTRODUCTION

Field research refers to the process of transmission and feedback of thoughts and feelings between people. the Encyclopedia Britannica defines communication as "exchanging information with each other in any way. This is a method of exchanging information through symbols, telephone, telegram, radio, television, or other means. "Visual Transcription Volume of Encyclopedia of China defines field research as "the process of exchanging information through symbolic means" (Coffee et al. 2019). Barnard believes that field research is an effort to seek meaning. This is a creative behavior in which a person wants to identify and organize clues to position themselves in the environment and meet their constantly changing needs. According to Leon Festinger, emotional field research refers to the two-way in-depth mutual field research conducted by both parties in terms of personal emotions, attitudes, values, etc., in order to deepen mutual understanding and meet the emotional needs of both parties. From its function, field research mainly has social function, decision-making function and visual transformation function (Aloia&McTigue 2019). the social function of field research contributes to the development and maintenance of relationships with others. In addition to being a social subject, a

person is also a decision-maker. Field research plays two important roles in the decision-making process, namely, promoting information exchange and influencing others. the visual transformation function of field research is to obtain social support and strengthen self-affirmation to meet people's visual transformation needs, which plays an important role in maintaining a healthy visual transformation state (House et al. 2020). College students are going through a critical stage, which is an important period in their lives. the overall visual transformation characteristics of college students in this age group have begun to mature, but have not yet fully matured. This stage is also an important stage for the formation of college students' quality, including their outlook on life and values, and special attention should be paid to their visual transformation health (Chust Hernandez et al. Contemporary college students are facing sharp changes in the external environment. Universities continue to expand their enrollment scale. the number of graduate and doctoral students continues to increase. Therefore, the social status and importance of college students continue to decline. At the same time, the employment and learning pressures of college students continue to rise, and various problems are beginning to emerge. Currently, a considerable number of college students suffer from mental illness (Garcia Santillan et al. According to the data released by the Youth Visual Transformation Health Conference organized by the Ministry of Health, the number of college students with mental disorders accounts for 16% to 25% of the total population. the main symptoms are obsessive-compulsive disorder, high tension, visual conversion, etc. About 10% of people suffer from severe mental disorders. Severe mental disorders account for approximately 1%. In addition, the proportion of college students with visual conversion problems is increasing (Asif et al. 2020).

College students majoring in art and design are one of the groups with the most serious visual conversion problems. In the "2020 Annual Filing and Approval Results for Undergraduate Majors in Ordinary Higher Education Institutions" released by the Ministry of Education, a total of 24 art majors have been revoked. the list shows that a total of ten universities have abolished their art and design majors, ranking second in the "2020 Most Revoked Undergraduate Art Majors" ranking. In the "2019 Annual Filing and Approval Results for Undergraduate Majors in Ordinary Higher Education Institutions", the Art and Design major ranked first in the "2019 List of Undergraduate Majors

Revoked in Ordinary Higher Education Institutions". A total of 16 universities participated. Concerns about professional status, confusion about future employment, and excessive learning pressure have led to a widespread tendency for visual conversion among art and design majors, seriously affecting their visual conversion health (ul Haq et al., 2018). Philosopher Bacon said: If you share your happiness with a friend, you can double it, and if you share it with a friend, you can halve your sadness. "Interpersonal communication has a significant impact on the self-awareness and visual transformation health of college students. When students feel visual conversion or depression, they can find a suitable partner, such as a good friend, parent, teacher, or even a visual conversion counselor at school, to tell them about their troubles and share their pain. At the end of the conversation, students themselves also feel relieved (Kay et al., 2016). This study selected art design majors from a university in Jiangxi Province, and analyzed the impact of field research on students' visual transformation through experiments and actual interviews.

Theme and Methods object Field research has special sensitivity. It is not easy to interview, and the difficulty lies in the first acquaintance with the interviewees. In order to transform When visiting a household, it is customary to first discuss family matters, or to help carry water, sweep the courtyard, or set a fire, This will quickly gain a sense of familiarity from the host, so that the host and guests can cross their knees on the kang and chat freely all night. We only have sincerity and sincerity To make friends with artists and truly empathize with them is to gain practical and extensive knowledge What folk art research must achieve.

Learn about local social etiquette and taboos in advance, and do as the Romans do when in Rome. If necessary, it can be done according to customs for the local people Prepare some greeting and guest gifts. At the same time, pay attention to the design of personal image. In terms of external performance, although different from the local Different, but not in violation of local taboos, such as hairstyle, clothing color, etc; the feeling of generosity and confidence that comes from within, Having grace, not taking small advantages, can quickly gain the trust of local people with a high probability. 'Beauty' does not exist solely in the work itself, but rather in relation to society, politics, interpersonal relationships, and so on Gradually recognized in complex interactions. the field investigation of design art should pay attention to people, observe more, and closely monitor the surroundings Investigator's behavior, focusing on people creating and utilizing these contents in their daily lives;; Through specific, microscopic Understand the social, political, and cultural norms of specific art and design activities, as well as their meanings, in terms of "people" and their behaviors Yi, rather than just clinging to the form and production process of the work itself. People who revolve around designing items the investigation of living conditions and changes is an extremely important research stance in designing field work. therefore While

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observing 'objects', it is also necessary to observe the objects being examined - the behavioral subjects, namely craftsmen, designers, and users How does a person work, what are the process steps, including daily life, work situation, and why is it important to think more the core link that needs to be addressed.

The visual order is established through the visual transformation of information classification into field research methods. Both the eyes and brain of a person Cannot handle massive amounts of information at the same time, visual communication design can make the information organized and avoid unnecessary internal Allow to distract readers' attention. At the same time, text design and arrangement can also guide readers to read, although reading There are no rules in the way of reading, but based on the information classification of visual communication, we can classify. Key information conveyed to designers Enrich the perspective of information communication. There are two main carriers for visual communication: abstract textual symbols and tools Elephant form. These two carriers have different functions and strengths, and their properties and characteristics cannot be replaced by each other.

The essence of visual communication is to use visual images to convey effective information and meaning. Visual Communication in Graphic Design the form is vividly expressed in book design: In book design, visual communication mainly utilizes two-dimensional elements Composed of elements, text and graphics are effective tools for visual communication, and book design requires text as the main element Design the layout with text symbols instead, making it simple and easy to communicate. This design is not for the purpose of the beautification of form has effectively conveyed information, and a complete book design has an emotional impact on the text the abstract expression of information symbols.

Enhance the rhythm of visual elements. In book design, elements such as text and graphics are combined and arranged,

To further demonstrate its overall visual effect. Melody and rhythm in book design, especially within In page layout design, there is coexistence. Through visual communication design techniques and tools, text, graphics, etc. can be integrated Visual elements are applied to the design to highlight the rhythm changes of reality and strength.

78 students majoring in art and design from a certain university in Jiangxi Province were selected as the research subjects. They were divided into two groups, an experimental group of 39 people and a control group of 39 people. the experimental group adopts communication training and conducts a week long communication and mutual assistance activity. the control group did not receive special treatment. SPSS windows20.0 was used to analyze the data of Generalized Visual Transformation Disorder-7, Perceived Stress Scale, and Perceived Social Support Scale before and after the test.

SCALE

Generalized Visual Transformation Disorder-7, GAD-7 Visual communication design covers a wide range of fields and is constantly being updated. It has practical value and the aesthetic value of art in the field of art design includes two-dimensional spatial graphic design, such as advertising Posters, fonts, logos, layout and arrangement; Corporate image series design, book binding and album covers, insertion Drawing illustrations, product catalogs and descriptions, newspapers and magazines, advertising letters, printing, and display; the design of three-dimensional space, Such as packaging, display, etc; the time design of four-dimensional space, such as television broadcasting, movies, TV movie flowers, advertisements Image, animation, stage design, etc. Currently, many foreign professional materials will fall under the category of graphic design design.

The content is a part of the script, screen analysis, film and television opening, ending creative illustrations, or split shot illustrations prepared for shooting These forms of expression are also included in the scope of visual communication design. the coverage of visual communication design is expanding, the content of design is also expanding, and design activities are becoming increasingly unstable Limited to a certain field, there are more and more opportunities, innovations, and challenges. the only thing that remains unchanged is visual communication design the concept comes from the heart and wisdom.

Gad-7 was prepared by Spitzer et al. Each score ranges from 0 to 3, and the result is calculated as the total score, which is the sum of the seven scores. the total score ranges from 0 to 21 points. Among them, no visual conversion is 0-4 points; Mild visual conversion 5-9 points; Moderate visual conversion 10-14 points; Severe visual conversion scored 15-21 (Spitzer et al. 2006).

VISUAL TRANSFORMATION ANALYSIS

The designer, based on the belief in humanities and life, extracts original concepts from the survey text for optimized design. In this process, designers need to extract semantic symbols of cognitive convergence, search for patterns, and apply complex semantics to Replace with representative symbols to highlight the efficiency, conciseness, and logicity of the design graphics. Designer for Ming How can Bai best fit and express the meaning of the text? It often requires in-depth field research and investigation design In our culture, considering design from the perspective of the survey subjects, improving social skills, and empathizing with others, Accurately grasp cultural connotations. Combining some traditional symbolic expressions, such as men wearing red, symbolizing power and conquest; Women wear red, symbolizing sexiness and other rich symbols. Semantic symbols have a certain degree of subjectivity, which can easily make the audience accepts this preference. Flexible application and combination with audience cognitive psychology may have unexpected effects.

The designer has a preliminary experience of the investigation process through the graphic language of the field research text. Schematic graphics can Create psychological activities that involve designers, ponder, and bring themselves into comparison. Field research guidance To meet the designers' needs for field research function, we must also meet the requirements of relaxation, convenience and pleasure Psychological needs. the design and expression that correspond to user expectations can help users find common emotions they understand, And achieve some expected needs. the content conveyed by indicative graphics should be consistent with social cognition, cultural consensus, and the Tao the concept of morality and other social consciousness are linked, and in the physiological process, abstract feelings of the five senses are transformed into specific ones Semantic symbols achieve channel correspondence between facial features and symbol information, enhancing confidence, accelerating understanding, and improving efficiency. In the process of visual transformation, graphic language should adhere to the principle of diverse expression forms, making it convenient for designers to Remove obstacles in use and deepen the memory of field research. the first is symbolic graphics, when the senses and symbols Corresponding to the information receiving channel, the need for field research methods to improve the initiative of designers in information receiving Only by seeking numerical values can the designer's initiative reach a higher level. Symbolic diagram with universal meaning the application of shape language can actively guide designers to find the correct field research method. Secondly, it is necessary to clarify and simplify the drawing of illustrations in graphic language conversion Conceptualize, identify the parts that must be truly preserved, and exaggerate or mutate conflict points to enhance visual effects. stay In the field research method of art and design, it is necessary to show the specific time and sequence step by step: This is an auxiliary graphic language, where text descriptions are usually placed next to drawings to aid in reading illustrations. the PSS scale consists of 14 items, 6 positive items, and 8 negative items, respectively. Negative items are 4, 5, 6, 7, 9, 10, 12, and 13. the scale has two dimensions, tension and loss of control. the scale adopts a 5-point scoring method. the higher the total score, the more obvious the pressure of visual transformation. α the coefficient of this scale is 0.78, indicating high internal consistency. the scoring method is as follows: Never gets 1 point, occasionally gets 2 points, sometimes gets 3 points, often gets 4 points, and always gets 5 points. the final total score ranges from 14 to 70 points. A score of 14-28 indicates a lower perceived pressure; A score of 29 to 42 indicates that the perceived pressure is moderate; A score of 43 to 56 indicates significant perceived stress, which may harm physical and mental health; A score of 57 to 70 indicates that perceived stress is very high, and subjects may appear more helpless and anxious (Cohen et al. 1983).

SOCIAL FIELD RESEARCH SUPPORT ANALYSIS

The visual transformation of field research texts emphasizes how readers accept and reuse information, which is abstract and concrete the process of communication. When people are in the initial stage of recognizing new shapes, it is not impossible to judge the graphic information, but in every Before the analysis of sensory channels is completed, known conceptual models cannot be used for deterministic reasoning. Improve the effectiveness of this process.

Efficiency will help reduce audience uncertainty. In the reading of graphic language, by strengthening understanding and reducing the audience's uncertainty in graphic language enhances their initiative in recognizing graphics. Intuitive graphic language To express concepts, the senses process these concrete concepts into abstract information, which can be integrated and organized into graphics the establishment of information concept cognition. In text visual transformation, graphical language can be used for convenient work through chart modeling and list comparison.

Use. Graphic languages are often used for manual production with complex functions, organized forms, and large amounts of information. At this point, the audience will the extraction of information becomes a problem. Under the premise of meeting performance and simplicity, the goal of design is first to be understood. the Purpose of Text Visual Transformation the goal is not to make the graphic representation obscure and difficult to understand, but to pursue simplification for usability. Visual transformation in text In graphic language expression, compromising and simplifying the features that dominate graphic design is the way to achieve "universal" simplification.

In the design of other schematic diagrams, the audience's understanding of the image content can only be stimulated by using a top-down angle to recognize Knowledge can improve. Graphical language unintentionally plays a universal role.

Social support is considered one of the important mediating factors determining the relationship between visual transformation stress and health. Specifically, it refers to the spiritual support and material assistance provided by individuals from various aspects of society, including family, relatives, friends, colleagues, partners, party groups, trade unions, and other organizations (Liu&Xia 2018). the Perceived Social Support Scale was developed by Blumenthal in 1987. It has 12 items and 3 subscales, including family support, friend support, and others' support. This scale reflects the intimacy and quality of a person's social relationships, and is used to measure the level of support an individual feels from family, friends, and others. the total score reflects the total amount of social support experienced by an individual. PSSS has good reliability and effectiveness, with an internal consistency coefficient of 0.93. In the subscale, the internal consistency reliability of family support was 0.83, while the internal

consistency reliability of friend support and other support were 0.82 and 0.76, respectively, meeting the standards of visual transformation measurement. Each item in the scale is scored using a 1-7 point scoring method. It is divided into seven levels: Completely disagree, strongly disagree, slightly disagree, neutral, slightly agree, strongly agree, and fully agree. A total score between 12 and 36 is considered low support. A total score between 37 and 60 is considered moderate support. A total score between 61 and 84 is considered high support. the higher the total score, the higher the social support (Xia et al. 2012).

RESULT

Before the experiment, the initial scores of GAD-7, PSS, and PSSS in the experimental and control groups were tested and used as paired variables for t-tests. the P-values of the three data tests are all greater than 0.05, indicating that there is no statistical difference between the data and can be compared for analysis. We tested the data changes of the experimental group and the control group before and after the experiment. From the data, it was found that there was no statistically significant difference ($P>0.05$) in the GAD-7, PSS, and PSSS scores of the control group before and after the experiment. This indicates that there were no significant changes in the subjects' visual conversion, stress, and perceived social support. the score of GAD-7 in the experimental group showed a significant difference at the 0.01 level before and after the experiment ($t=3.257$, $P<0.01$). the visual conversion score significantly decreased and the visual conversion status improved. There was a significant difference in PSS score at the 0.05 level ($t=1.953$, $P<0.05$). the stress score significantly decreased and the stress state improved. There was a significant difference in PSSS score at the 0.001 level ($t=-5.245$, $P<0.001$). the perceived social support score significantly increased, and the perceived social support status improved. the paired sample t-test results of the experimental and control groups' post experimental data can verify the above conclusion. After the experiment, the GAD-7, PSS, and PSSS scores of the experimental group were statistically compared with the control group ($P<0.05$). the visual conversion and stress levels of the experimental group were lower than those of the control group, while the perceived social support scores were higher than those of the control group.

DISCUSS

Firstly, create the perspective of visual transformation form aesthetics. In many relationships of visual recognition systems, graphics It is important to identify core elements. Graphic information has the advantages of recognition and rapid communication, far surpassing text messages Information has strong visual recognition and influence. As an effective form of communication for visual recognition, its performance Force is becoming increasingly important. the results of graphic creative design have distinct formal beauty, following personalization and dialectics Under the premise of law, it is conducive to the effective transmission of

information. Design results with a formal aesthetic will bring visual appeal to the audience. Enjoy the senses, meet aesthetic needs, attract viewers to watch, interpret, enjoy and relax, and quickly receive and transmit information on. It determines the success or failure of visual conversion and directly affects the overall effect and internal tension of visual communication. It also affects the transmission of information and emotions, which in turn affects the designer's perceptual judgment of on-site visual transformation.

Secondly, from the perspective of exploring the essence of text content. Deep excavation of the text content of the field research method of art design is to express the meaning of visual transformation.

The most important thing is to summarize it into visual design language, so that designers can understand the field research methods more efficiently. Legal content. the transmission of spiritual connotations such as field research mode of thinking, values, cultural symbols, and social exchanges. This is of great significance.

Thirdly, from a humanistic perspective, information is intuitive and actionable. the visual transformation of field research methods can help designers easily obtain the originally complicated and difficult to find information content. Quickly and accurately identify and locate key pain points during on-site inspections, and identify and resolve them.

The issue of the relationship between "people" and "things", in order to clarify the value, significance, and feasibility of art in a more efficient way the development model of sexual inheritance endows works with warmth during the creative process, and better "people-oriented" design. stay While meeting creative needs, it enhances the effectiveness of visual communication and people's attention to art and humanities.

It has important practical significance for further promoting the development of China's cultural industry. In order to understand the students' active field research under the current conditions, we chose direct interviews to investigate the art design students' field research behavior during the experiment. the survey found that there were great differences between male and female college students in active field research behavior. Female college students have more obvious field research behavior to express their emotions. In the process of communication, women can consciously adjust their visual transformation state to keep themselves in a good state. On the one hand, the reason may be the difference in language expression ability between men and women. Women have stronger language expression abilities. This aspect is influenced by innate factors. On the other hand, this may also be related to the social positioning of gender roles. In today's society, women play more roles in public relations and field research. This occupational demand may further strengthen women's training in language and field research, making their daily active field research behavior more prominent (Kim et al. 2018). Age is also an important factor that causes differences in field research behavior. the frequency of

communication reported by freshmen is much higher than that of juniors or seniors. the main reason is that new students have just entered the university campus. the sense of expectation and freshness in their hearts makes them more actively communicate with teachers, seniors, classmates, and friends in their studies and life in university. During the four years of college, both junior and senior students are under the greatest academic and employment pressures, respectively. They are faced with the most demanding professional courses and information about employment pressure, so they ignore interpersonal field research.

Some students are troubled by visual conversion and are unwilling to communicate or converse with others. Most of their inner activities are: No one can understand me. "My troubles will disturb others. "When others worry about me, it only makes me more visually transformed. "If I say that, they will look down on me. "I will get better after a while. "Their hearts are closed, and they believe that the outside world is untrustworthy. From the perspective of visual transformation health, this closed state is unreasonable. They need to adjust their mindset to correct themselves or seek visual conversion counseling.

Field research can not only improve the visual transformation health of college students, but also has many impacts. Today, with the rapid development of globalization, society has become more interdependent and collaborative. Human interaction has become increasingly common and social connections have become increasingly close (Bondy et al., 2020). In such an era, anyone who wants to survive and develop must keep in touch with others and form a relationship of mutual understanding, mutual assistance and cooperation through multi-channel field research. As the fundamental process of human social interaction and the foundation of all social formations, communication has brought unprecedented challenges to each of us in the process of globalization. We must constantly improve social field research and cultivate the ability to adapt to social changes (Arslan 2010). In addition, field research involves many aspects of life and society. Effective field research is related to such major issues as human visual transformation health, interpersonal harmony, social interaction, economic cooperation and job promotion. Contemporary college students are the backbone of society's future and the builders of social development. They shoulder the sacred mission of promoting national economic development, scientific and technological progress, and building the motherland into a modern powerful country (Ibrahim and Mahab, 2021; Vo et al., 2020). Therefore, today, with the rapid development of globalization, in addition to the knowledge level and moral quality, the requirements for contemporary college students also include healthy visual transformation quality, strong social adaptability and interpersonal field research ability. These factors together constitute the core competency characteristics of their ability to smoothly integrate into society, be competent in their own work, and shoulder sacred

missions. In the 21st century, field research has become an important issue for talent development and even social development (Tankovic et al. 2022).

Import information from the question for observation. In visual communication design, observation mainly refers to

The generation and thinking from "eyes" to "vision". Arnheim said: Vision is thinking, everything Perception includes thinking, all reasoning includes intuition, and all observation includes creation. During the observation phase, it is necessary to We should understand the object of design thinking as comprehensively as possible from different perspectives, especially the opposite of the common perspective, Identify visual sensations that are different from before. Generally speaking, analysis is a more in-depth A more rational cognitive activity that divides the research object into multiple parts, aspects, structures, factors, and levels, Then conduct research and reflection separately. Analyze the structure, organization, and laws behind the representation of the research object. Analytical the significance lies in in-depth and meticulous observation and research, finding the main line to solve design problems. For example, understanding and analyzing the target audience for information dissemination, namely designers, and creating visual language suitable for specific designers to avoid visual interference Sense ambiguity.

In the analysis stage of field research methods Often, there are numerous directions and ideas for solving problems, and under the intuition of visual triggering, we should further explore the hidden the expressive factors hidden in images and the deep connotations, values, and meanings of things. Intuitive induction in observation scores On the basis of analysis, summarize complex and specific problems into clear "goals", and discover commonalities from personalities

Classify and 'relate', and propose clear design positioning. It can further enhance our understanding of the problem, Clarify the ideas, directions, and design positioning for problem-solving, and generate creative concepts. Rational Analysis and Intuitive Regression Na complements each other and lays the foundation for "association and imagination". Create through the phenomenon of one thing A way of thinking that involves creative thinking and a certain connection to another matter. A series of comprehensive observations and rational analysis the process of intuition induction is a comprehensive and in-depth cognitive process of objective things. On this basis, phase Appropriate associations can help us broaden our understanding and break through conventions or interactions in a free, divergent, and jumping manner the common sense of forks combines visual thinking with logical thinking to generate new connections and recognition of objective things Understanding. How to correctly grasp thinking in the design process Direction, clear thinking, identifying problems, solving problems, validating problems, achieving multi perspective observation, analysis, and reasoning Intuitive induction of sexuality;

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How to choose the best association scheme; How to choose the appropriate visual media; How to obtain Visual information feedback is necessary to verify the accuracy and effectiveness of visual information transmission and the success of the enterprise To design a systematic evaluation system, this is not only the result of "comprehensive observation, rational analysis, and intuitive induction" Sending points is also the basis for evaluating 'correspondence and imaginative creation'. Evaluation system plays a key role in the process of design thinking the key function is a reasonable guarantee for design and implementation.

CONCLUSION

Through the visual transformation design practice of the art design field research method, we learned about the art design field A feasible solution for visual transformation design research using survey methods. the first is to construct an information hierarchy and choose highly readable ones Font, controlling line spacing in text arrangement; the second is visualization, which uses graphical explanations in terms of processing In the current form, the content is re edited using the method of class object design. Information visualization design table of line diagram Da can make the step-by-step diagram more specific and resonate with users. Humorous and interesting visual elements with arrows, etc.

Indicators sufficient to effectively convey information; Thirdly, do not fall into misunderstandings about self-expression. We should accurately solve Read the content, set appropriate audience groups, and combine the user's intentions to improve in field survey methods the visual design level of text information. I hope these practical experiences can bring some help to designers, enabling them to Designers pay more attention to the development trend of art design, making the field research method the focus of designers, Truly achieving people-oriented and accessible design. Due to the limitations of research conditions, there are still many shortcomings, and it is expected that in the future Further research can be conducted to further improve the research results.

Through comparative experiments and direct interviews, it can be concluded that appropriate field research can transform individuals' vision and stress, improve social support, and solve the problem of college students' vision transformation. Students can use this program to visually transform themselves. Schools and relevant departments should also establish an environment or atmosphere that promotes communication between students.

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