Design and Achievement Evaluation of Ideological and Political Teaching in Environmental Science Practice

Yiwen Fu^a, Yong Zhang^{b,*}

School of Environmental and Surveying Engineering, Suzhou University, Suzhou, China ^afuyiwen@caas.cn, ^bzhangyang@ahszu.edu.cn ^{*}Corresponding author

Keywords: Environmental science; Socialist core values; Curriculum ideology and politics; Degree of achievement

Abstract: In order to cultivate useful talents who support the Communist Party of China (CPC)'s leadership and China's socialist system and are determined to fight for the cause of Socialism with Chinese characteristics for life, under the guidance of higher education of ideological and political education, the content of ideological and political education is designed, and the achievement degree of teaching objectives is evaluated and analyzed, so as to cultivate socialist "four haves" college students in the new era and realize the goal of "three-round education".

1. Introduction

In China's long history of five thousand years, scholars have the feeling that "every man is responsible for the rise and fall of the country" [1]. In the hundred years of modern history, students have taken national independence and national independence as their mission. When Comrade Zhou Enlai answered why he was studying, "studying for the rise of China" was shocking. Comrade Mao Zedong thought that reading should be determined first, and he set his own reading goal of "learning for people, for the people and for the people of the world" very early. When he was studying in Hunan No.1 Normal School, he was determined to find the truth of saving the country and the people. After many years, he recalled this paragraph. Reveal your great ambition to serve the motherland at that time [2]. Mr. Li Dazhao, the pioneer of the communist movement and one of the main founders of the Communist Party of China (CPC), publicized Marxism when he was teaching in Peking University, and made great contributions to the spread of Marxism in China. The May 4th Movement in 1919 was the embodiment of the patriotic movement of the students [3].

With the continuous development of China's economy, it has now entered the Socialism with Chinese characteristics stage of a new era. At the National Conference on Ideological and Political Work in Colleges and Universities on December 7-8, 2016, General Secretary Xi emphasized that it is necessary to adhere to the moral education as the central link, to carry out ideological and political work throughout the whole process of education and teaching, to achieve full-time and all-round education [4], to strive to create a new situation in the development of China's higher education, and to elaborate on the problem of cultivating socialist builders and successors to solve the problem of "what kind of people to cultivate"; To solve the problem of "how to cultivate people" with cultivating

people as the core and virtue as the foundation; Cultivate talents for the party and the country to solve the problem of "cultivating people for whom" [5]. On March 18th, 2019, General Secretary Xi further emphasized that it is necessary to cultivate generations of useful talents who support the Communist Party of China (CPC)'s leadership and China's socialist system and are determined to fight for the cause of Socialism with Chinese characteristics all their lives, and to cultivate talents in the new era who have the socialist core view and can realize the great rejuvenation of the Chinese nation, which points out the direction for talent training in today's colleges and universities [6].

Under the guidance of Secretary Xi on "three-round education" in higher education, the Ministry of Education has formulated the "Guiding Outline of Curriculum Ideological and Political Construction in Colleges and Universities", which clearly points out that curriculum ideological and political construction is a strategic measure to implement the fundamental task of educating people in Lide and an important task to improve the quality of personnel training in an all-round way. It is necessary to integrate socialist core values into the professional knowledge and practice of the curriculum, make it concrete and vivid, and realize the "smooth and silent" cultivation of college students' correct ideals and beliefs [7]. Suzhou University, as a local application-oriented high-level university, is to cultivate engineering application-oriented talents for local and enterprises, and also to extensively carry out ideological and political activities. It sets 2022 as the year to promote ideological and political education and teaching, and requires that ideological and political education should be carried out in all majors of the school, and that ideological and political education should be carried out in teaching plans, classrooms and minds. On this basis, the ideological and political education and political construction.

2. Environmental science course practice teaching objectives

index	Specific graduation requirements index point					
moral norm	With humanistic knowledge, critical thinking ability, ability to do things and scientific spirit and other humanities and social science literacy.					
	With socialist core values, it can undertake the social responsibility of promoting the concept of ecological civilization construction and sustainable development and safeguarding national environmental security.					
	Understand the professional nature and norms of environmental engineers, and be able to abide by professional ethics and ethics in engineering practice.					
Environment	Able to understand the principles, policies, laws and regulations of environmental protection and sustainable development.	~				
and sustainable development	Be able to comprehensively consider the impact on the sustainable development of the environment and society in the design of solutions to complex engineering problems, and take measures to improve them.	Goals 1, 3				
	Master basic theoretical knowledge such as mathematics, physics and chemistry, and have the ability of understanding, analysis, application and calculation.					
Engineering knowledge	Master the basic theories and professional knowledge of environmental engineering such as water pollution control, air pollution control, solid waste treatment and disposal, physical pollution control, and be able to identify and analyze actual environmental engineering problems based on these basic theories and methods, and be able to apply engineering and professional knowledge to the design, operation, management and optimization of pollution control processes.					
	Master the basic theoretical knowledge of environmental monitoring, environmental impact assessment, environmental planning and environmental management.					
п. · ·	Familiar with technical standards, norms, industrial policies and laws and regulations related to environmental protection.					
Engineering and society						
and society	Understand the engineering and social responsibilities that should be undertaken in analyzing and evaluating solutions.					
problem analysis	Be able to identify and judge complex environmental engineering problems by applying relevant basic theoretical knowledge of environmental engineering specialty.					
	Be able to analyze the influencing factors and processes of complex environmental engineering problems through literature research.					
	Be able to apply the relevant basic theoretical knowledge of environmental engineering specialty to summarize complex environmental engineering problems and get effective conclusions.					

Table 1: The supporting relationship between courses and graduation requirements index points

According to "Higher Education Law of People's Republic of China (PRC)", China's higher education needs to formulate a professional talent training plan, and clarify the talent training

objectives and graduation requirements [8]. See Table 1 for the indicators of graduation requirements and the supporting relationship with the curriculum objectives of "Environmental Science Curriculum Practice".

2.1. Environmental science course practice course construction objectives

Goal 1: Through the practice of "Environmental Science Course Practice" based on the ideological and political guiding ideology, we can combine theory with reality, innovate the education and teaching mode, promote the reform of teaching methods, practice the construction goal of demonstration and application-oriented colleges and universities, realize the talent cultivation of higher education, and realize the social talent demand of outstanding engineers who "serve the place and serve the enterprise".

Goal 2: With the guiding ideology of the state as the banner, we should combine the knowledge content of course practice with the knowledge of social thinking and politics in practice, achieve the teaching goal of social practice thinking and politics, improve the teaching syllabus, teaching plan and course design and practice of social practice thinking and politics in environmental studies, and cultivate outstanding talents with "socialist core values". The students love the country, understand and get familiar with the various policies and guidelines of the country through practice, and dedicate themselves to the development of the country.

2.2. Environmental science course practice knowledge construction objectives

Objective 3: The students realize the professional knowledge learning of "Environmental Science Course Practice", understand the value and significance of environmental science practice, and recognize the application of automobile exhaust emission marks and standards. The students learn about automobile exhaust treatment technology and the application of new energy vehicles. The students identify the main sources of air pollution and pollutants and apply air related standards and apply air pollution integrated treatment technology. The students identify the main pollutants in rivers, lakes and other water bodies and apply water-related standards. The students master the application of comprehensive water treatment technology.

Goal 4: Realize the ideological and political knowledge learning in the course practice, understand the guiding ideology of ecological civilization construction in the report of the 19th National Congress, and grasp the connotation of "a better life". Master the content of "resources and environment" indicators of the "14 th Five-Year Plan" for national economic development. Understand the "Made in China 2025" content of the national automobile industry development plan and the strategy of strengthening the country. Familiar with China's industrial technology upgrading, eliminating all kinds of backward production capacity with high energy consumption and high pollution in the atmosphere and water bodies, and deeply understand the guiding ideology of "Lucid waters and lush mountains are invaluable assets".

3. The design of ideological and political elements in the practice course of environmental science

3.1. Course internship mobilization meeting course ideological and political content design

The internship mobilization meeting mainly expounds the value and significance of the environmental science course internship, introduces the main contents of the course internship and the requirements of internship safety and labor discipline. The internship place is the internship training classroom, and the main ideological and political contents are shown in Table 2.

Table 2: Ideological and Political Contents of Internship Mobilization Meeting Course

Ideological and political content	keyword
(1) The 18th National Congress of the Communist Party of China put forward the socialist core values. The "civilization" of the	
national value goal includes environmental civilization, and "harmony" includes the harmony and unity between human development	
and environmental protection.	
(2) In the report of the 19th National Congress of the Communist Party of China, General Secretary Xi put forward 14 persistences	
in Socialism with Chinese characteristics Thought and Basic Strategy for the New Era, the ninth of which was "Insisting on the	Report of the
harmonious coexistence between man and nature", carrying out ecological civilization construction, establishing and practicing	19th National
Lucid waters and lush mountains are invaluable assets's concept, adhering to the basic national policy of saving resources and	Congress,
protecting the environment, and clearly put forward "firmly following the civilized development path of production development,	Civilization,
affluent life and good ecology, building beautiful China, creating a good production and living environment for the people and the	Harmony,
whole world". Advocated the guiding ideology of beautiful China.	Green Water
(3) In the report of the 19th National Congress of the Communist Party of China, it is proposed to realize the people's growing needs	and Green
for a better life. The ninth part of the report is "Accelerating the reform of the ecological civilization system and building a beautiful	Mountains, the
China", demanding "focusing on solving outstanding environmental problems" and "promoting green development", and	14th Five-Year
emphasizing that our generation should make efforts to protect the ecological environment.	Plan.
(4) In the 14th Five-Year Plan for China's national economic and social development and the long-term goal outline for 2035, the	
eleventh article is "Promoting green development and promoting the harmonious coexistence between man and nature", which	
requires the construction of an ecological civilization system, promoting the overall green transformation of economic and social	
development, and putting forward indicators such as "green ecology" and "security guarantee".	

3.2. Design of ideological and political content of automobile exhaust practice course

The practice of automobile exhaust mainly includes the mechanism analysis of the formation process of fuel automobile exhaust, the types of main pollutants, the exhaust emission and harm of major cities in China, the main device types and technical principles of automobile exhaust treatment, and the comprehensive control measures of automobile exhaust, etc. The practice places are automobile sales and service 4S shops, bus company parking lots, dmv inspection stations and gas stations, etc. The main ideological and political contents are shown in Table 3.

Table 3: Ideological and Political Contents of Automobile Exhaust Practice Course

Ideological and political content	keyword
(1) The "rule of law" in the social value orientation of the socialist core values: Chapter IV, Section III, Air Pollution Prevention	
Law, Articles 51, 52 and 53 on the inspection of motor vehicle exhaust emissions; Automobile exhaust emission standards will	
be implemented in 2020; Automobile exhaust detection system and automobile exhaust emission certificate system, and	
eliminate yellow label vehicles within a time limit.	
(2) Guidelines document: the State Council issued the Action Plan for Air Pollution Prevention and Control, proposing that	
measures should be taken to strengthen urban traffic management, implement public transport priority strategy, increase the	Rule of law,
proportion of public transport trips, control the number of cars in some cities and implement the "single and even number	Made in
restriction" measures.	China 2025,
(3) The idea of technological innovation, the guiding ideology of national innovation and entrepreneurship higher education: The	scientific and
National Development and Reform Commission, the Ministry of Public Security, the Ministry of Ecology and Environment, the	technological
Ministry of Commerce, the State-owned Assets Supervision and Administration Commission, the General Administration of	innovation,
Market Supervision and the National Energy Administration jointly issued an announcement to promote the upgrading of refined	innovation
oil quality and improve fuel quality from January 1, 2019.	and
(4) The national action plan "Made in China 2025": One of the ten major areas is "energy-saving and new-energy vehicles",	entrepreneurs
which promotes the formation of a complete industrial system and innovation system from key components to complete vehicles,	hip.
promotes the rapid development of self-owned brand energy-saving and new-energy vehicles, and comprehensively strengthens	
the upgrading of the automobile industry chain.	
(5) National strategic arrangement: New Energy Vehicle Industry Development Plan (2021-2035), national policies and	
guidelines for implementing new energy vehicles, car purchase subsidies, pilot cities and licensing measures, and promotion of	
natural gas vehicles, ethanol gasoline vehicles and electric vehicles.	

3.3. Design of ideological and political content of atmospheric environment practice course

The practice of atmospheric environmental problems mainly includes the main pollutants, annual output and environmental hazards such as smog in thermal power plants of representative enterprises with air pollution; Industrial waste gas emission device, diffusion smoke type, comprehensive emission standard of pollution, comprehensive measures and technical control methods for waste gas treatment, etc. Air pollutants and prevention measures in engineering construction activities are practiced in thermal power plants, construction sites, offices of joint meetings on air pollution

prevention and control, etc. See Table 4 for the main ideological and political contents.

Table 4: Ideological and Political Contents of Atmospheric Environment Course

Ideological and political content	keyword
(1) Guiding ideology: On May 18-19, 2018, General Secretary Xi emphasized that "air quality is directly related to the	
happiness of the broad masses" and pointed out that "the blue sky, white clouds and stars are shining" should be restored to	
the common people, so as to realize the transition from "heavy smog" to "blue sky always exists", especially "Winter	Report of the
Olympics Blue" in 2022.	19th National
(2) Report of the 19th National Congress of the Communist Party of China: "Adhere to the principle of national governance	Congress, the
and source prevention, continue to implement air pollution prevention and control actions, and win the blue sky defense war".	rule of law, the
(3) National guidelines and relevant regulations, advocating the rule of law, industrial upgrading, advocating Scientific	14th Five-Year
Outlook on Development, implementing the strategy of strengthening the country through science and technology, and	Plan, industrial
realizing the goal of "double carbon": upgrading the technology of enterprises and realizing the action plan for air pollution	upgrading,
prevention and control (Article 10); National policies to eliminate backward production capacity and measures to close small	strengthening the
and medium-sized thermal power plants; Develop the guiding ideology of new energy and vigorously develop wind power	country through
and hydropower; We will implement the goal of national independent contribution to climate change in 2030 and formulate	science and
an action plan for peaking carbon emissions before 2030.	technology,
(4) Harmonious and civilized socialist core values: the "AQI Daily" system implemented by the state for air quality and	harmony and
ensuring people's healthy life; Urban air pollution prevention and alarm system, urban development air quality supervision	civilization.
and assessment ideas; The guiding ideology of "three links and one reform" in urban management, and the evaluation of	
"national civilized city" construction.	

3.4. Ideological and political content design of water environmental issues

Table 5: Ideological and Political Contents of Water Environment Course

Ideological and political content	keyword
(1) General Secretary Xi Thought on Socialism with Chinese Characteristics for a New Era: Lucid waters	
and lush mountains are invaluable assets concept.	
(2) Guiding ideology: "Accelerate the prevention and control of water pollution and implement	
comprehensive management of river basin environment and coastal waters" in the report of the 19th	
National Congress; In the Tenth Five-Year Plan and the outline of the long-term goal in 2035, "improve	
the cooperative mechanism of water pollution prevention and control basins, strengthen the	
comprehensive management of key basins, key lakes, urban water bodies and coastal waters, promote the	
protection and construction of beautiful rivers and lakes, reduce the total amount of chemical oxygen	
demand and ammonia nitrogen emissions by 8% respectively, and basically eliminate the national control	
sections inferior to Class V and urban black and odorous water bodies".	
(3) Implementing the "long river (lake) system" water management measures: In 2016, General Secretary	
Xi visited Anhui in person, in which "protecting good mountains and good water" was an important	Green mountains and green
instruction made by the general secretary. Anhui Province will focus on changing from extensive and	hills, the report of the 19th
inefficient mode to green development, resolutely rectify the feedback from the central environmental	National Congress, the 14th
protection inspectors, vigorously implement the "five ones" special action, and increase the establishment	Five-Year Plan, the long
of the "three rivers, one lake, one park and one district" ecological demonstration. Fully implement the	river (lake) system,
"river (lake) length system"; Promote ecological restoration and water environment improvement in the	industrial upgrading, a
Yangtze River Economic Belt in accordance with the requirements of "jointly protecting and not	strong country in science
developing".	and technology, harmony
(4) National guidelines and relevant regulations, advocating the rule of law, industrial upgrading,	and civilization.
advocating Scientific Outlook on Development, and implementing the strategy of strengthening the	
country through science and technology: the state implements the "Water Pollution Prevention Action	
Plan" (Water Ten), implements the guiding ideology of "energy saving and emission reduction" and	
"reaching the standard", and collects water pollution tax; Implement the national water-saving action,	
establish a rigid constraint system for water resources, strengthen agricultural water saving and efficiency	
improvement, industrial water saving and emission reduction, and urban water saving and loss reduction,	
encourage the utilization of reclaimed water, carry out technological innovation, and improve the	
efficiency of water resources utilization.	
(5) Harmonious and civilized socialist core values: the treatment of urban black and smelly water bodies,	
the establishment of urban river landscape parks, the improvement of people's living and leisure	
environment, the realization of harmonious coexistence between people and the environment, and the	
realization of civilized city construction.	

The practice of water environment problems mainly includes the main pollutants of industrial wastewater and domestic sewage, the annual output, and representative water pollution events such as eutrophication of lakes (Taihu Lake) and water pollution of rivers (Songhua River). Diffusion types and migration and transformation processes of pollutants in water; Relevant standards for comprehensive wastewater discharge, comprehensive wastewater control measures and engineering treatment technologies; Engineering practice of reclaimed water reuse; Water-saving publicity and education methods, etc., the internship sites are enterprise sewage treatment workshops, urban

domestic sewage treatment plants, the first batch of urban rivers in the country to control black and odorous water bodies, and the new Bianhe scenic spot in the "national water conservancy scenic spot". The main ideological and political contents are shown in Table 5.

Design of ideological and political content of environmental science practice course summary.

The summary content of environmental science practice course mainly includes writing practice report on the basis of investigation, interview and other practices according to the content of course practice; Carry out the idea of combining theory with practice. The practice place is the school practice classroom, and the main ideological and political contents are shown in Table 6.

Table 6: Summary of Ideological and Political Contents in Environmental Science Practice Course

Ideological and political content	keyword
 Socialist core values of prosperity and patriotism: Through the practice of various environmental elements, students are trained to love the motherland's great rivers and mountains, so that students can have a deeper understanding of the connotation of "good life" in the report of the 19th National Congress, cultivate a sense of responsibility for realizing the country's beautiful scenery, and cultivate students' ambition to study for the "great rejuvenation of the Chinese nation". Learning Outline of General Secretary Xi's Ecological Civilization Thought: Through the practice in each unit, I deeply understand General Secretary Xi Thought on Socialism with Chinese Characteristics for a New Era's guiding ideology on ecological civilization, so that students can deeply understand the socialist harmonious values such as "harmony and civilization". Socialist core values of rule of law and dedication: Through the management measures of various pollutants, we can deeply understand the connotation of various systems and regulations, and as a senior technical talent of environmental engineering in the future, we can cultivate the professionalism and innovation spirit of engineers, which integrates the guiding ideology of "double innovation education" and "labor education" in China's higher education. 	Prosperity, patriotism, harmony, civilization, rule of law, dedication innovation and entrepreneurship, and labor education.

4. Environmental science course practice teaching goal achievement degree analysis

4.1. Evaluation methods of curriculum objectives

Table 7: Evaluation Method of Achievement Degree of Practice Teaching Objectives of
Environmental Science Course

	Usually, the score accounts for 50%						The final				
Course teaching objectives	Practice attendance and safety discipline (30%)		Internship report (30%)		Practice behavior (40%)		examination accounts for 50% of the score.		Target score	Evaluation method of achievement degree of curriculum sub-goals	
	score	weight	score	weight	score	weight	score	weight			
Course teaching objective 1	50	0.1			20	0.2	20	0.7	23		
Course teaching objective 2			20	0.2	30	0.2	20	0.6	22	Target achievement evaluation means = \sum (actual average	
Course teaching objective 3	50	0.1	30	0.3	30	0.2	30	0.4	32	$\frac{1}{1} = \sum_{n=1}^{\infty} (\arctan average)$	
Course teaching objective 4			50	0.2	20	0.3	30	0.5	31		

This course comprehensively evaluates students' performance by means of internship attendance and safety discipline, internship report, internship behavior performance and final examination [9]. The course evaluates the assessment results in a process way, with the usual scores accounting for 50% of the total assessment results and the final assessment results accounting for 50%. The usual grades are assigned to internship attendance and safety discipline, and the course objectives 1 and 3 are evaluated; Practice report, evaluating course objectives 2, 3 and 4; Practice behavior, evaluate course objectives 1, 2, 3 and 4. The final examination is the internship summary report and defense, which evaluates the course objectives 1, 2, 3 and 4. The practice of environmental science course is evaluated, and the specific examination methods, score distribution and achievement calculation of the course objectives are shown in Table 7[10].

4.2. The results and analysis of the achievement of curriculum objectives

At the end of the semester, students were evaluated by using the educational administration system, and the comprehensive score was 97.83. After the end of the course, a questionnaire on the achievement degree of the course is designed, which contains three goals of the course, and the options are divided into five levels: fully realized, well realized, basically realized, poor and very poor; Respectively: 1, 0.8, 0.6, 0.4, 0.2. The overall survey results are shown in Table 8.

Table 8: Evaluation Results of Practice Teachers and Students in Environmental Science Course

program objective	Teacher evaluation	Student evaluation
Course objective 1	0.8	0.87
Course objective 2	0.8	0.88
Course objective 3	0.8	0.85
Course objective 4	0.8	0.87
Overall curriculum objectives	0.8	0.86

According to the set calculation method of course goal achievement, the actual average score and goal achievement of course sub-goals are counted, and the specific calculation results are shown in Table 9.

On the whole, all the course evaluation, teachers' evaluation and students' evaluation show that the achievement values of the three course objectives of this course all exceed the expected 0.7, and reach the expected course objectives. On the whole, students have a good grasp of course objectives 1 and 3, and the achievement degree of course objectives 2 and 3 is slightly lower than the target, and the achievement value of course objective 2 is 0.75, which shows that there is still room for improvement in the achievement of higher-level goals in this course[11]. Specifically, the final examination participates in evaluating all the course objectives, and the average score of students' final examination is 79.13, which fully realizes the achievement value of the course objectives. It can be seen that the ideological and political design of environmental science course has realized the cultivation of talents for the motherland and the cultivation of socialist successors and builders who love the party in the process of practical teaching.

Table 9: Calculation Results of Achievement Degree of Practice Teaching Objectives of
Environmental Science Course

program objective	Evaluation link	weight	Target score	Actual average score	Goal achievement degree		
Course objective	Practice attendance and safety discipline	0.1	22	19.09	0.82		
1	Practice behavior performance	0.2	23		0.83		
	Final examination	0.7					
	Internship report	0.2		16.5			
Course objective	Practice behavior performance	0.2	22		0.75		
2	Final examination	0.6					
	Practice attendance and safety discipline	0.1		24.64			
Course objective	Internship report	0.3	32		0.77		
3	Practice behavior performance	ctice behavior performance 0.2					
	Final examination	0.4					
	Internship report	0.2		25.11			
Course objective 4	Practice behavior performance	0.3	31		0.81		
	Final examination	0.5					
	Overall achievement degree of curriculum objectives						

5. Conclusions and prospects

"Cultivating people by virtue" is the guiding banner of talent cultivation in China's higher education, and curriculum ideological and political education is the direction of curriculum reform in China's higher education. Based on the report of the 19th National Congress, the 14th Five-Year Plan, the long-term goal in 2035, General Secretary Xi's ecological civilization thought and other theoretical guiding documents, the ideological and political teaching goal of environmental science curriculum practice is determined, and the ability-oriented education and goal-oriented education required for the graduation of achievement talents are realized by using the educational model based on learning output. By analyzing the ideological and political contents contained in each practice unit of environmental science course, the practice place and main contents are described in detail, and the ideological and political learning contents of automobile exhaust, atmospheric environmental problems and water environmental problems are designed, which include not only the guiding ideology such as "beautiful China, green development", "Lucid waters and lush mountains are invaluable assets" and "long river (lake) system", but also the socialist values such as "prosperity, harmony, rule of law and patriotism". Based on the implementation of the course, through the investigation between teachers and students, the achievement degree of the course teaching goal is calculated, and the overall achievement degree is 0.78, which realizes the talent training goal of cultivating successors for the country and excellent engineers for the school.

The practice content of environmental science course covers a wide range. Based on the design of ideological and political content of environmental issues such as atmosphere and water body, the ideological and political content of the course under the guidance of the same model can be extended to soil environmental issues, noise environmental issues, radioactive pollution environmental issues and other aspects in the future, and can be extended to various fields of social and economic development related to the environment. For example, indoor decoration pollution in construction industry, interior decoration pollution in automobile industry, ecological protection in highway and railway construction, environmental sanitation in food industry, etc., all of which need to be discovered and explored by us to realize the educational guiding ideology of talent training of "representing the fundamental interests of the people" and "letting the people live a better life" in all professions and industries.

Everything is constantly changing and developing, so is the guiding ideology of curriculum ideological and political education. General Secretary Xi's Socialism with Chinese characteristics theory in the new era is also constantly developing and enriching. The content of curriculum ideological and political education should also keep pace with the times, adapt to the latest guiding ideology, the latest policies and regulations of the country, and constantly enrich the ideological and political education should also keep pace with the times, adapt to the latest guiding ideology, the latest policies and regulations of the country, and constantly enrich the ideological and political content of environmental science curriculum practice. The environmental-related ideological and political ideas in the upcoming 20 th Congress are urgently needed to be studied, so as to deepen the ideological and political depth of environmental science curriculum practice and cultivate patriotism and socialism.

Acknowledgements

2022 Suzhou City Science and Technology Plan Project: Demonstration and Promotion of Photovoltaic Plate and Forest Cultivation Techniques for Morchella and Mushroom (SZKJXM202215); Doctoral Research Initiation Fund of Suzhou University: The Effect of Nitrogen, Phosphorus, Potassium Addition and Drought Interaction on Carbon and Water Flux in Alpine Meadows and the Mechanism of Plant Character Regulation (2020BS003).

References

[1] Zahra Ranjbar, Mozhgan Hosseinnezhad, Kamaladin Gharanjig. Guest editorial: Environmental science and sustainable energy: colorants and coatings [J]. Pigment & Resin Technology, 2023, 52(3).

[2] Murr Rabih, Achkar Georges El, Faraj Jalal, Hage Hicham El, Castelain Cathy, Khaled Mahmoud. Using solar air heating for fruit drying: Thermo-economic and environmental studies[J]. International Journal of Thermofluids, 2023, 18.

[3] Shi Yuze. "May 4th Spirit" to explore the function and inheritance path of patriotism education for college students [J]. Industry and Technology Forum, 2022, 21(14):111-113.

[4] Liu Zhiwei, Jiao Weizhou, Qi Guisheng, et al. Exploration on Ideological and Political Teaching of Chemical Thermodynamics Course under the Guidance of the Concept of "Three Holistic Education" [J]. Chemical Higher Education, 2022, 39(04):54-59+79.

[5] Luan Chunyu, Bai Jie. The original contribution of "Who to train, how to train and for whom" [J]. Journal of Tianjin University (Social Science Edition), 2022, 24(03):223-229.

[6] Li Jianzhi, Hu Li, Mo Wenjuan, et al. Practice and exploration of curriculum ideology and politics in the teaching of internal medicine nursing [J]. Educational modernization, 2021, 8(27):93-95.

[7] Yang Xueshan, Zhu Xia, Liang Qi, et al. Thinking and countermeasures for the construction of innovative talents training mode in colleges and universities in the new era [J]. Journal of tonghua normal University, 2022, 43(08):88-93. [8] Yan Yan, Yu Yanrong. Exploration of unit teaching performance evaluation with the goal of continuous diagnosis and improvement [J]. Journal of Guangzhou City Vocational College, 2022, 16(02):74-78.

[9] Jia H L, Hu J A, Li Y N, Jie W P, Xu Y. [Study on the construction and quality evaluation of courses for ideological and political education in the course of oral histology and pathology]. [J]. Chinese journal of stomatology, 2023, 58(5). [10] Fan Zhang. Inspiration of Moral Judgment Evaluation Methods on Assessing Curriculum Ideological and Political Education for Foreign Language Courses[J]. The Educational Review, USA, 2023, 7(3).

[11] Ci Yan. Research on the Classroom Teaching Path of Ideological and Political Education of Folk Art Curriculum in Colleges and Universities[J]. Education Journal, 2023, 6(3).