

Exploration and Practice of Ideological and Political Education in the Course of Pump and Pump Station under the Background of Integration of Production and Education

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Abstract: The integration of production and education in higher vocational colleges is an important means of ideological and political construction of professional courses. In the school enterprise cooperation, professional teachers inside and outside the school should form a collaborative consensus on the concept of educating people, build a load-bearing wall for students, and cultivate dreamers for the country; We should pay attention to the collaborative creation of schools and enterprises in the teaching process, and create high-quality and integrated "Ideological and Political+" professional courses through echoing problem conclusions, gathering key highlights, interaction between schools and outside, and integration of theory and practice. At the same time, we should strengthen the collaborative construction of the industry education integration organization system to ensure the efficient and high-quality ideological and political construction of the curriculum.

Keywords: Integration of production and education, Cooperate education, Ideological and political education.

1. Introduction

"Ideological and political education in curriculum" is an important starting point for colleges and universities to implement the spirit of the National Conference on Ideological and Political Work in Colleges and Universities. Adhering to the sacred mission of all educators to "establish morality and cultivate people", professional teachers are not only one of the most direct contact and concentrated dialogue groups with college students, but also the main force to carry out ideological and political education in curriculum. Ideological and political education is the most critical and difficult part in the ideological and political education system. Therefore, professional teachers' good ideological and political construction of curriculum is directly related to the influence, affinity and durability of ideological and political work in colleges and universities. Guangxi Construction Vocational and Technical College actively carried out the ideological and political construction of the curriculum, and strongly supported teachers to carry out the ideological and political construction of the curriculum in professional courses. The senior seminar of Water Pump and Water Pump Station was one of the first professional courses in the ideological and political demonstration course construction project. Based on the perspective of collaborative education, the course constantly innovated teaching concepts and teaching methods, which was widely praised by students. The main teacher of the course shared his experience as a representative of professional teachers at the National Curriculum Ideological and Political Conference, which was unanimously appreciated by experts and peers. This course has gradually explored a successful path for professional courses to carry out ideological and political construction.

2. Synergistic Consensus On the Concept of Education

The report of the 20th National Congress of the Communist

Party of China pointed out that it is necessary to train new people of the times to take on the task of national rejuvenation. Relevant documents of the central government also put forward that the foundation of higher vocational colleges is to cultivate virtue and talents. Therefore, the new era puts forward new requirements for higher vocational colleges and teachers. Whether university administrators, professional teachers, or teachers of ideological and political theory courses, they should focus on the center of talent training. The Minister of Education of China once pointed out that through ideological and political work, a "load-bearing wall" will be built for college students, which will be able to bear the weight and withstand various tests in the future. Teacher's work

It is teachers' bounden duty to build a wall in the hearts of college students as an engineer of human souls. Socrates believed that "knowledge is virtue", that is, all knowledge has "goodness". For professional teachers, it is necessary to build a "load-bearing wall" and a "professional pillar" in the minds of students at the same time, and devote all efforts to training red and professional socialist builders and successors, so as to contribute to the realization of the Chinese Dream of the great rejuvenation of the Chinese nation.

2.1. Moisturize things silently, and the advantage of ideological and political construction of the specialized course Water Pump and Pump Station

Professional courses are courses of professional knowledge and skills set up by colleges and universities according to the training objectives, so that students can master the necessary basic theories, professional knowledge and professional skills of the specialty, and cultivate the ability to analyze and solve general practical problems within the scope of the specialty. Professional teachers have great advantages in carrying out ideological and political education by taking advantage of professional courses. First, ideological and political education

finds an effective carrier through professional knowledge, which can blend things into the teaching process silently and enhance the affinity of ideological and political education. Second, compared with the major ideological and political courses such as "situation and policy", the specialized courses generally focus on middle class or small class teaching. Professional teachers can better master each student's learning state and ideological state, and can better teach students in accordance with their aptitude, prescribe the right medicine to the case, and timely solve students' knowledge and ideological problems. Third, professional courses have a strong professional and industrial background, which is closely related to students' future employment and career development. Ideological and political education can cultivate students' professional spirit and professional ethics, and has a long-term positive guiding role in the growth and development of life. When the professional courses can truly realize the implicit ideological and political education, they can complement and coordinate with the explicit ideological and political education methods such as the ideological and political theory courses to provide students with in-depth and extensive ideological and political nutrition.

2.2. Attach importance to curriculum planning and build a "indomitable" professional curriculum ideological and political value chain

Taking the basic course of water supply and drainage engineering technology "Water Pump and Pump Station" as an example, this course aims to improve the students' theoretical level of pump operation energy consumption analysis and their ability to apply standardized and standardized thinking and methods to solve practical problems, and to cultivate talents of water supply and drainage engineering technology facing the new era. Three characteristics are fully considered in the design stage of this course:

First, the practice of the project is followed. The course is based on typical projects at all times and in all countries, highlighting practical wisdom;

The second is the value attribute of management. The course guides students to compare and analyze the development of water transmission and distribution technology of pumps and pump stations in different countries and periods, and strengthen the education of socialist core values on the basis of objective discussion;

The third is the dialectical characteristics of the case. Aiming at the beginning of the semester, the course meticulously selected experts from different sectors of the industry as guests of the course. During the course, the guests were invited to share typical cases of the projects they participated in, and to interact with teachers and students to discuss, which can guide students to look at the same case from different perspectives, making the truth more clear.

The curriculum constructs a curriculum ideological and political value chain of "standing tall and upright", designs a logical path of "national development needs project driven, project success needs theoretical appreciation, and effective speculation needs talent support", breaks through the original barriers between ideological and political education and majors, so that ideological and political education can naturally transition from the grand narrative of national

projects to the important values at the meso level, and finally landing on the micro project subject, It makes students feel that what they have learned is closely related to their professional advancement and national development. Professional knowledge and ideological and political education blend together, regardless of each other, and the ideological and political effects of the curriculum will emerge naturally.

2.3. Focus on students and constantly meet their strong demand for high-quality curriculum education

The education object of specialized courses is students, and the main goal of course teaching is to improve students' professional ability and cultivate their professional spirit. The "water pump and water pump station" of the water supply and drainage engineering technology specialty closely meets the needs of students and innovates teaching methods, which has been praised by students. For example, after the first lecture of the course, "Walking into a world of pumps that change society", Student evaluation: "The teacher chose a unique teaching method for this course of water pump and pump station. The guests and teachers jointly taught, which made me full of expectations for each class. I look forward to hearing an interesting and knowledge increasing case every Monday, expanding my knowledge and understanding more real cases of pump application. Theoretical knowledge is like a reference book, helping us better understand the cases. I can get close contact with the current real cases, Thank you very much for the platform provided by the teachers. "

3. Collaboration and Co Creation in The Teaching Process

Teaching is a seemingly easy but extremely difficult professional practice. From the perspective of integration of production and teaching, teaching itself is a complex group, not only professional teachers in school, but also enterprise tutors outside school. It is often necessary to mobilize different subjects and factors from all aspects to participate in it, and carry out effective integration of production and teaching, so as to achieve good teaching results. Therefore, the teaching process is a collaborative and co creating process involving multiple subjects. In this process, the key to the ideological and political construction of the course "Water Pump and Water Pump Station" is to stand at the height of "ideological and political integration of the course" and coordinate all teaching links.

3.1. The problem conclusion echoes, and the curriculum design reflects scientific and procedural

According to the idea of problem analysis, teachers take "problems" as the starting point of teaching, take "problems" as the basic elements to organize teaching, and use "problems" throughout the whole teaching process. The course "Water Pump and Pump Station" has been constantly groping in the process of practice, combined with the research experience of the lecturer, and explored and designed the ideological and political teaching process of the problem oriented multi collaborative course in teaching research, which has been welcomed by students and achieved good teaching results, as shown in Figure 1.

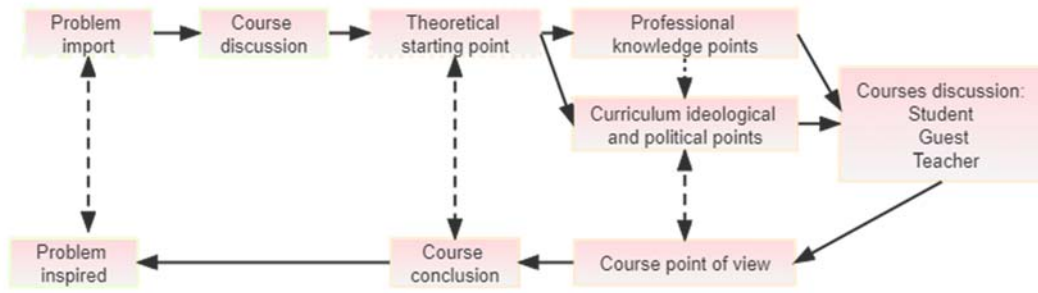


Figure 1. Ideological and political teaching process of the multi collaborative course "Water Pump and Pump Station" based on problem orientation

According to the process, during the classroom teaching of "Water Pump and Pump Station", several questions were carefully selected before the class. These questions are usually introduced in the class to trigger students' thinking and discussion. On the basis of warm discussion, the lecturer deeply analyzed the discussion, elicited the theoretical starting point of this course, and aroused everyone's resonance. On this basis, the professional knowledge point and the ideological and political point of the course are derived. They are interdependent and dialectical, in which the professional knowledge point is the basis and the ideological and political point of the course is the soul. Then, around the professional knowledge points and curriculum ideological and political points, the industry guests will bring the sharing of typical cases. The curriculum teachers will summarize the sharing of guests or guide students to actively ask questions and interact according to the three points of the curriculum (theoretical starting point, professional knowledge points and curriculum ideological and political points) or summarize the sharing of guests from time to time to complete the multi subject participation in the curriculum discussion. After that, the professional teachers summarized the series of views of the course, led everyone to compare with the ideological and political points of the course, and sublimated everyone's value identity. On this basis, draw the conclusion of the course and explain the relationship between it and the starting point of the curriculum theory at the beginning. Finally, draw inspiration to the problems, guide students to compare with the problems introduced at the beginning of the course, and see whether they can solve or treat these problems rationally. In the whole teaching process, there are professional teachers, guests and students actively participating, but the leading subjects at different stages have different priorities.

3.2. Gathering of key highlights, precise discussion arouses resonance between teachers and students

According to the teaching process of the course, the excavation of the ideological and political points of the course is the core link. In the teaching practice of the course "Water Pump and Pump Station", the combined boxing method of "grasping the key points, seizing the nodes, overcoming the difficulties and creating the highlights" is gradually summarized. To grasp the key points is to closely follow the important knowledge points in professional knowledge; Seizing the node is closely related to the current major current political topics; To overcome difficulties is to objectively

analyze some shortcomings in the current society, or students' misunderstanding or misunderstanding of some hot ideological and political issues; The highlight is to make the finishing point, integrating the professional knowledge points with the ideological and political points of the curriculum, so that students can understand the ideological and political logic and value judgment behind the knowledge points, so that they can really learn to understand and make use of it in the future. Taking the classroom teaching of the second class of the course, "Project managers and craftsmanship spirit", as an example, the focus is to let students deeply understand the relationship between ancient Chinese craftsmen and water transmission and distribution engineers, through the question of "whether craftsmanship is more needed in the new era"; To seize the node is to quote the latest statement in the report of the 20th National Congress of the Communist Party of China and explain to students that high-quality development really needs craftsmanship; To overcome the difficulties is to help students analyze the actual development of craftsmanship spirit in water transmission and distribution and other industries, stimulate students to learn from craftsmen, be conscientious and work well step by step; The highlight is to highly summarize why the technicians of water supply and drainage engineering need craftsmanship, and explain the great role of craftsmanship in promoting the success of career through the model workers invited in the course, so that students, guests and professional teachers can reach a high degree of resonance.

3.3. On campus and off campus linkage, production and education integration and collaborative education

Water Pump and Water Pump Station is a professional course with a strong industry background. The ideological and political education of the course is closely related to the national economic and social development. Both of these aspects require that classroom teaching should not be limited to the campus, but break the walls of the school and society, form a positive interaction with the society, and jointly achieve all-round education for students. In the course of "Water Pumps and Pump Stations", we carefully selected and invited industry elites who are or have been deeply involved in the design, construction, operation and maintenance of typical projects to serve as guests of the course. The guest team is a combination of old, young and middle-aged people, both men and women, including project managers, engineering directors of multinational corporations (model

workers), real estate development project directors, and construction project managers. These guests have rich experience in pump station or pump house projects and life experiences, and are warmly welcomed by students in the classroom.

3.4. Guest students form pairs, please come in and go out

Water Pump and Water Pump Station carries out the ideological and political construction of the course, which perfectly combines "inviting in" with "going out". Taking the course "Water Pump and Water Pump Station" as an example, from the teaching of theoretical knowledge, professional teachers especially emphasize the core role of professionalism in personal development, so specially designed a pairing link between guests and students, that is, students in the class are divided into groups, and they can freely choose corresponding guests according to their interests. During the break between the lectures of the guests, the professional teachers introduced the students of the group to the guests, made a preliminary communication with the guests, and arranged a time to go to the guests' workplaces for an exclusive interview. The contents of the interview and the class should be compiled into the corresponding works of the course by the teachers and students, which also well mobilized the enthusiasm of the students. The students are very eager to complete such a meaningful "course project" together. Before the interview, each group should design an interview outline in advance. After the review and approval of professional teachers, specific interview activities can be carried out. This practice has greatly enhanced the students' initiative, showing the abstract concept of ideological and political education to specific "people". Through personal interviews and experience, students can better understand the guests' work environment and life experience, deepen their understanding of classroom knowledge, and have a clearer career plan for future life. For example, the sixth group of the course met with guests in a face-to-face interview on the documentary shooting of the hospital construction project, so that students can intuitively experience the work scene and better understand the real situation of the post, which has a great role in promoting their understanding of the career and thinking about career development.

3.5. Integration of theory and practice, promotion of knowledge teaching and peer learning

Nowadays, the world is globalized and information is changing with each passing day. If any professional course wants to effectively input knowledge to students, it must closely link theory with practice. When talking about knowledge points, it must be interspersed with social hot spots, and when talking about practical problems, it must pursue theoretical interpretation. Only in this way can students be convinced, learn something, and the ideology and politics of such courses can really be heard and heard. At the same time, ideological and political education in colleges and universities also needs to closely combine theory and practice, both of which are indispensable and complement and promote each other. In the course of "Water Pump and Water Pump Station", the teachers of the course team can combine rich engineering experience with profound research results and ideological and political education in the classroom, and can effectively explain the basic knowledge of water pump and

water pump station for students from theory to practice to life, which is highly praised by students. In the classroom, professional teachers often encourage students to express different opinions and opinions and debate issues. They also invite students who are in charge of the school's innovation and entrepreneurship training program to share their successful experience, which is appreciated by other students, and plays a good role in peer learning and mutual promotion.

4. Collaborative Construction of Organizational System

In order to ensure that the ideological and political construction of professional courses continues to be effective and widely carried out, Guangxi Construction Vocational and Technical College pays attention to the collaborative construction of organizations and systems. Under the unified deployment and leadership of the Party Committee of the College, the Academic Affairs Office of the University and secondary colleges coordinate to guide the ideological and political construction of professional courses. The Academic Affairs Office develops an incentive mechanism for curriculum ideological and political projects, organizes the selection of curriculum ideological and political demonstration courses, and mobilizes and implements curriculum ideological and political competitions, Regularly hold seminars on curriculum ideology and politics and open observation classes on curriculum ideology and politics, and carry out special guidance and planning with each college for each demonstration course, to promote the ideological and political construction of the school's professional courses from the point to the face, forming a good atmosphere of "curriculum doors have ideology and politics, and teachers teach and educate people". The curriculum teaching has achieved good results, and the education work has been recognized by all parties and welcomed by students.

The object of ideological and political education is students, who will eventually go to society and engage in specific work. The ideological and political curriculum should also attach importance to the construction of the whole life cycle training mechanism and the formation of the value chain. Therefore, the integration of production and education should be an important development direction. On the one hand, Guangxi Construction Vocational and Technical College attaches great importance to the transformation of scientific research achievements and social service ability, emphasizes the close integration of teachers' scientific research and enterprise production application, improves the practical ability of teachers themselves, and lays a solid foundation for the integration of industry and education; On the other hand, through the joint construction of school and enterprise party building, teachers' "production, learning and research" practice program topics, college students' social practice, the second classroom and other ways, we actively support teachers to introduce enterprise resources in teaching, and invite industry guests to interact with students in the course of ideological and political education, which not only enriches students' vision, allows students to deeply understand the world situation, national conditions, social conditions and market in advance, but also provides professional teachers with an effective way to build an industry, learning and research cooperation platform, To form a positive interaction between teaching and scientific research, promote the long-term and effective development of ideological and political

curriculum, and benefit teachers and students for life.

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