

Course Ideological and Political Exploration and Practice under Professional Ideological and Political Leadership

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Abstract: "Curriculum Ideology and Politics" is an important part of the current ideological and political work in higher education, and science and engineering professional courses have difficulties in the implementation of "Curriculum Ideology and Politics" because they use natural science, engineering technology, etc. as the teaching content. Taking the building materials course as an example, it is an important embodiment of the synergy effect. Promoting the ideological and political construction of courses is an inevitable requirement for colleges and universities to educate people, and it is an important way to build morality and cultivate people. This article first expounds the concept and connotation of curriculum ideology and politics, and then combines the curriculum characteristics of professional courses to give some ways and methods for professional courses to develop curriculum ideology and politics.

Keywords: Ideological and Political Exploration ; Output Orientation; Teaching Practice

1. INTRODUCTION

"We must insist on cultivating people with morality as the central link and carry out ideological and political work throughout the entire process of education and teaching, so as to realize the education of all staff, the whole process, and all-round education." All courses in colleges and universities must have the function of educating people, and all teachers Both have the responsibility of educating people, knowledge imparting and value education must resonate at the same frequency. Teachers of professional courses "keep a good section of the canal and plant a good field of responsibility" and walk in the same direction with the ideological and political courses, to form a synergy effect and cultivate talents that meet the requirements of the society.

Compared with humanities courses, there are certain difficulties in playing the role of ideological and political education in science and engineering courses. Taking building materials as an example, it is a basic course for majors in construction engineering management and engineering cost. The main content covered by this course is the variety, technical performance, qualification standards, use conditions and testing methods of common building materials. The course itself is based on natural knowledge as the basic research object, which is objective and universal, and does not depend on consciousness. The education students receive focuses on technology and knowledge, and the focus of course examination is the comprehensive application of technology and knowledge. How does this course realize the function of ideological and political education? This paper will carry out systematic reforms from the aspects of teaching objectives, integration methods, etc., and build a teaching model that integrates the course content of building materials with "course ideology and politics".

From "Ideological and Political Courses" to "Course Ideological and Political Courses", the simple reversal of the names indicates that the pattern of ideological and political

education in colleges and universities will undergo major changes. Curriculum ideology and politics is not a course, nor is it simply adding ideological and political elements to the curriculum, but a curriculum view, which refers to organically integrating the content of ideological and political education in colleges and universities throughout the course teaching, to achieve the same level as ideological and political courses. Collaborate with peers to achieve "unification of explicit education and implicit education, excavate the ideological and political education resources contained in other courses and teaching methods, and realize all-round education for all staff." Through the course study of theoretical mechanics, students On the basis of clarifying the research object (particle or rigid body), understand the research content (statics, kinematics and dynamics) and research methods, lay the foundation for the study of other mechanics courses and the mastery of science and technology in the future, and be able to learn use relevant knowledge and methods of theoretical mechanics to solve relatively simple practical engineering problems.

However, because it contains many knowledge points and is difficult to understand, it is often difficult for students to maintain their enthusiasm for learning in the process of learning. The characteristics of the theoretical mechanics course are analyzed as follows: dialectical thinking requires people to start from an objective point of view, dialectically thing. In the learning of material knowledge, we must learn to look at the quality of quality dialectically. For example, the "hard and brittle" properties of strength properties are interdependent and affect each other. Blindly pursuing a certain special property will not only bring about changes in costs, but also Will cause other performance degradation. Therefore, safety and applicability in the preparation and use of materials is the unchanging truth.

2. THE PROPOSED METHODOLOGY

2.1 The Proposition and Connotation of Curriculum Ideology and Politics

In recent years, engineering quality problems have been attracting people's attention. Take water leakage on the top floor of a house or the water leakage in the basement of a garage as an example. When the rainy season comes, it will often attract widespread attention and even lead to mass incidents. There are design problems and construction technology problems, but the more easily overlooked part is the material problem. This includes both the preparation and use of unqualified materials, as well as the selection of unsuitable materials. We engineers must adhere to bottom-line thinking, prepare for the worst in everything, and strive for the best results. Strictly abide by professional ethics, abide by national regulations, and ensure the safety of project construction and use. According to the current regulations and policies related to engineering quality, building structures must meet the corresponding service life. The bottom line thinking of engineering quality is not only the basic requirement of professional ethics, but also the red line of law-abiding. Each course will formulate its curriculum standards before it is opened. The curriculum standards require students to master professional knowledge and achieve professional skill goals through learning. At the same time, they will also formulate relevant moral education work requirements based on the characteristics and content of the course.

Such as patriotism, collectivism, and revolutionary tradition education for students; guiding the establishment of a correct world outlook, outlook on life, and values, and cultivating noble personality sentiments; instilling the excellent traditional culture of the Chinese nation and enhancing national pride; Scientific spirit and so on. the

[Aiming at the teaching requirements of the ideological and political course, the course standard has been revised to fully implement the basic concept of this course, dig deep into the ideological and political elements contained in this course and the ideological and political education function carried by it, and lead the ideological value throughout In the whole process of education and teaching, while cultivating students' professional skills, we constantly strengthen the cultivation and promotion of students' professional quality and emotional value. Teach students responsibility and responsibility, teach students how to behave and do things. Nowadays, students generally grow up in an environment with relatively rich material conditions, which makes them have higher requirements for the learning atmosphere.

Teachers can use advanced technologies such as multimedia and virtual reality to create vivid teaching scenarios, constantly ask questions, stimulate students' senses, and increase the degree of knowledge absorption. In addition, flipped classrooms are adopted to increase the content of practical courses, guide students to learn independently, and realize independent thinking. The building materials course is based on the traditional building materials course experiment and encourages students to investigate and study the materials around them. The following table shows some of the research assignments for students in the building materials course. The research assignment not only realized the extension of students' learning from classroom to before and after class in time, but also realized the extension from classroom to outside school in space. Promote the ideological and political education teaching reform of this course, dig out the

ideological and political elements contained in the teaching concept, teaching design, teaching methods, teaching content, etc., integrate professional knowledge and ideological and political education naturally, and promote the realization of ideological and political education The organic unity with professional knowledge education turns unconscious behavior into conscious systematic behavior.

2.2 Ideological and Political Implementation Methods of Professional Courses

The integration of ideological and political content is not to apply it mechanically, nor to separate it from the teaching implementation, but to combine the teaching content and teaching links in the teaching to excavate and design. The course "Android System Application Development" has many cases and demonstrates the application of relevant knowledge points through these many examples. When designing a case, organically integrate relevant ideological and political content into the corresponding case without violating harmony. For example, in the use case of Menu, the text is the oath to join the party, and the background is an important place related to the life and death of our party, such as the Nanhu Red Boat and Yan'an Pagoda Mountain. There are many such examples. These vivid cases all have distinctive themes and characteristics, but they are all well integrated with professional knowledge, not blunt or violating harmony. Theoretical education and nurturing.

Professional courses are taught in this way, with emotion and temperature, students love to listen, and it is easier to digest. Kinematics studies the trajectory, velocity, and acceleration of an object without considering the external force acting on it. The content mainly covers the kinematics of points, simple motion of rigid bodies, synthetic motion of points, and plane motion of rigid bodies; dynamics The research is on the relationship between the motion of the object and the external force on the object, that is, the basic equation of particle dynamics, the momentum theorem, the momentum moment theorem, the kinetic energy theorem, D'Alembert's principle and the virtual displacement principle, etc. This course contains a lot of knowledge points, which are not closely related to each other. There are many contents that need to be understood and memorized, and students are often required to truly understand and apply these theories instead of blindly applying formulas. If the subjective initiative and learning interest of students cannot be well stimulated, most students will easily be unclear about the content they have learned and fail to achieve the expected teaching purpose.

Whether teachers' professional knowledge is solid will affect students' professional technical ability, and at the same time, the way of thinking and value orientation revealed by teachers in the teaching process will also affect students' outlook on life and values. Therefore, while strengthening their own professional knowledge base, teachers of professional courses should also strengthen their study of "course ideological and political" content, participate in a series of training on "course ideological and political", strengthen exchanges with ideological and political teachers, and deeply explore the humanistic spirit of professional courses. During the teaching process, while analyzing cases with professional course knowledge, professional ethics and other content are integrated, and professional course education is organically combined with ideological and political education to achieve "moisturizing things without sound". The core content of the ideological and political teaching concept of the course is to

focus on the core link of the curriculum reform, deeply explore the ideological and political education functions contained in all courses, design ingenious and scientific teaching content, and then guide students to establish lofty ideals and ambitions and the correct political direction. Cultivate scientific values and further strengthen the cultivation of their own comprehensive quality. This article is based on the introduction of theoretical mechanics to carry out a specific example analysis.

First, by introducing the most influential scientific and technological field in the 20th century—aviation and aerospace technology, the status and importance of mechanics are expounded, that is, aviation and aerospace technology embodies a country's comprehensive national strength and international influence, and is also a national economy, science, and technology. A comprehensive reflection of technical strength, combining students' patriotic enthusiasm with interest in learning professional knowledge. Then, based on the premise of human exploration of unknown space and development of cosmic resources, the development history of China's aerospace industry is highlighted, and in the process of introduction, the relevant knowledge of statics, kinematics and dynamics used in key issues is emphasized. It also happens to cover the main research content of theoretical mechanics, showing the importance of theoretical mechanics. Finally, through the form of questions, students can truly understand and master the application of theoretical mechanics in practical engineering problems.

3. CONCLUSION

The implementation of "Curriculum Ideology and Politics" is a long-term process that requires slow penetration. Any "false", "big" and "empty" slogans in the implementation of the curriculum will not only fail to achieve the goal of "moral education" but will easily arouse students' resentment. Therefore, it is the core part of curriculum ideology to discover the meeting point of "curriculum" and "ideology and politics" and realize the organic combination. Curriculum ideology and politics is a systematic project, which requires the linkage of the whole school and the linkage of various courses. "Building morality and cultivating people" should not be just a slogan. It must be truly implemented. As a teacher who directly deals with students, he has a heavy responsibility. Curriculum ideology and politics has developed a brand-new teaching model of building morality and cultivating people. As a teacher, you should be well involved, actively participate, and give full play to the educating function of the college curriculum system.

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