Research on the Method of Engineering Course Training New Students Based on IPE

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Abstract. Ideological and political education can be abbreviated as IPE, which is very important for the correct formation of College Students' world outlook, outlook on life and values. The ideological and political course is the first key element of students' education, which can be referred to as ICE. The paper puts forward the educational idea of ‘running IPE through the whole teaching process, realizing the whole process education and all-round education’. Around how to carry out IPE in the classroom, this paper demonstrates how to control and choose the time and teaching content, how to implement IPE, and forms a set of teaching methods of ‘introducing IPE into professional courses’.

Introduction

How to firmly grasp the balance point between moral education and professional development, and form the working idea of ‘IPE silently influences students, and cultivate new students with IPE in curriculum’, and truly implement the education of contemporary socialist core values in every course and every class, so as to achieve the goal of cultivating talents silently, and then promote the concept, and establish the spirit of dedication among college students Education environment, let professional education and ideological and political propaganda education go together.

In the era of information explosion, college students are well-informed. They can integrate the spirit of seeking truth from facts into the professional classroom education through the innovation of teaching methods and education means, assimilate the students' Ideological and moral with their special experience, enhance their sense of national honor and national self-confidence, and improve their ideological and moral level. Make students understand that ‘behind people's yearning for a better life is the strong support of the state’. We will accelerate the transformation of IPE from a pure ICE to an all-round one. As the saying goes, ‘the edge of the sky is not as good as the side, the truth is not as good as the story’. The life path of many famous entrepreneurs and industry celebrities shows that the advantages of IPE can play an active role in the work of educating new people, and become an important ideological guarantee for college students to display their talents and achieve success.

The Methods of Training New Students in Engineering Courses

To ensure the transfer of correct values in the teaching process of professional knowledge, to maximize the experience of classroom education, to effectively solve the problems of students ‘who to learn’, ‘how to learn’, ‘how to achieve effective learning’, to realize the organic unity of ‘knowledge transfer’ and ‘value guidance’, to promote the transformation of ‘single ICE’ to ‘all professional course Ideological and political’ three-dimensional education, training We should foster students' spirit of seeking truth and being practical, pursuing truth and scientific exploration, and rigorous and practical learning attitude. All kinds of courses should be in the same direction with ideological and political theory courses to form a synergistic effect.

Moral Education

In the specialized course teaching, we should use the way of ‘imperceptibly’ and ‘moistening things silently’ to exert their own characteristics of restraint and discipline. We should integrate new
socialist ideology with Chinese characteristics and socialist core values into the content of the course so as to achieve the purpose of IPE inadvertently. For example, the communication engineering professional courses can reflect patriotic feelings and life state, help students to strengthen their ideals and beliefs and patriotism, pay attention to the connection between personal destiny and national destiny, and integrate personal ideals into national dreams, so that IPE can naturally develop in professional education.

**Technology Leading**

In all kinds of professional courses, we should guide students to enter high-tech, and interpret the essence of science and technology in the rapid development of the information age. For example, the automation course actively guides students to discover the intelligent trend in life. It takes life robot, industrial robot and military robot as application objects, and uses case discussion, debate and other ways to integrate IPE into classroom teaching. For example, in the debate competition, students can divide into groups to ‘robot intelligence service or artificial service’, examine traditional science and technology with the perspective of advancing with the times, integrate into the contemporary scientific and technological thought and political vision, present the spirit of promoting social progress and taking the world as their own responsibility.

**Mission Consciousness**

Pay attention to the relationship between current affairs and science and technology, analyze current affairs hot spots in combination with the course content, run the national mission, social development and personal honor through the classroom, clarify the great significance of science and technology in the stability and progress of national politics, economy and social culture, and improve the political awareness and professional identity of the students. For example, in engineering practice courses, the implementation theme set keeps pace with the times and is linked with the current hot spots. It not only guides students how to operate the equipment and collect information, but also transmits the values and career vision behind the objectivity to them, so as to stimulate students' professional sense of mission. We should always remember to love our country and never forget our social responsibility, and be a college student with feelings and positive energy.

**The Way to Educate New Students in Engineering Courses**

Promote IPE into the classroom, through the following five ways to guarantee:

**All Round Analysis**

This paper analyzes the development background of IPE in Colleges and universities in China, analyzes the definition, connotation, principles and requirements of IPE in courses, combs the necessity of strengthening IPE in classroom teaching in local colleges and universities, and studies the methods of improving the quality of IPE by introducing IPE into the classroom.

**Innovative Teaching Mode**

According to the setting background and educational objectives of ICE in Colleges and universities, it is necessary to study the effective combination methods of fine tradition and IPE and the teaching mode and innovative means of integrating into the classroom education of professional courses.

**Establish Guidelines**

To do a good job in the design of ‘ICE’, we are encouraged to summarize the extraction methods of the educational elements of ‘Ideological & Political Courses’ in combination with our own courses. Detailed analysis based on the mission of IPE into the classroom guidelines, the establishment of a positive energy spirit of the mission of education background education elements design.
Communication Learning
At the same time of comprehensively improving the comprehensive quality of teachers' teaching, we should encourage students to share their growth insights and learning experiences, and take personal sharing and interactive communication as the theme, so that students feel intriguing, rather than ‘looking and being bored’, especially for college students at the beginning of enrollment.

Cooperation Mechanism
Universities and enterprises should send personnel to each other to exchange their responsibilities, jointly cultivate technical talents, cooperate to build an educational environment and carry out technological research. At the same time, explore and establish a normalized ‘demand cooperation exchange test’ mechanism, and regularly carry out social application questionnaire survey and technical direction demand research in combination with the annual production plan of first-line enterprises. Gradually form a stable and smooth cooperative relationship, and establish and improve the supporting cooperative management system.

The Theoretical Innovation of Engineering Course to Educate New Students
Focusing on promoting high-quality development of manufacturing industry, strengthening industrial foundation and technological innovation capacity, promoting the integrated development of advanced manufacturing industry and modern service industry, and accelerating the construction of a manufacturing power. Therefore, with the application and development of robot technology in various industries and life service fields, there is an urgent need for a large number of professional and technical talents of robot engineering, and the education of innovative talents in the field of intelligent manufacturing will inevitably undergo profound changes. Promote IPE into the classroom, through the following three ways to guarantee:

Rely on a Confident System
This paper discusses the high-tech differences between China and the United States, China and Europe, combines the good quality of discipline with professional education, analyzes the correctness of the socialist road and the superiority of the socialist system from a professional perspective, and imperceptibly influences students to form correct outlook on life and values in professional courses. Based on the quality of students and the reality of running a school at present, and in line with the goal of cultivating practical, wide caliber and innovative compound high-quality talents, the college focuses on the cultivation of students after four years of University, with basic theories and practical skills such as engineering application and social responsibility.

Strengthen Ideological & Political Education
Facing the first demand of the society, an important sign of graduates is to attach importance to practice. First, to ensure the experimental hours in professional courses, but to issue targeted practical courses. Third, to implement the design of practical courses, to ensure that students' practical hours are not less than 1 / 4 of the total hours. It is a solid theoretical and technical foundation for graduates to face social employment and further study. It has a bright future in intelligent product design and manufacturing engineering, automation engineering, robot installation, debugging and maintenance, intelligent system information management and application research. To educate people with ideological and political guidance is not only one of the contents of Engineering in Colleges and universities, but also the inevitable requirement of the development trend of colleges and universities. Through demonstration of radiation effects, all kinds of courses should be ‘responsible and qualified’.

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New Measures of Ideological & political Education Based on the Background of Mission Education

In the course, we should integrate the fine tradition, strengthen the sense of mission of college students, strengthen the students' ideals and beliefs, cultivate patriotism, strengthen moral cultivation, increase knowledge and knowledge, cultivate the spirit of struggle, enhance the overall quality, and cultivate the students to be the social masters with positive energy and sense of mission Justice builders and successors.

Summary

Through the establishment of the influence relationship between Humanities and engineering courses, we can develop and improve the personnel training model for social services. Form a teaching theory and method system based on IPE, and build a propaganda work mode to meet the needs of information technology in Colleges and universities. Based on the analysis of the development background of IPE in Colleges and universities, this paper discusses the necessity of strengthening IPE in classroom teaching in local colleges and universities. This paper studies the teaching mode and innovative means of integrating the sense of mission education background into the classroom education of professional courses. This paper summarizes the extraction method of educational elements of ‘IPE based on mission education’. The design scheme of education elements of mission education background with positive energy spirit essence is established.

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