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Reform and Practice of Ideological and Political Teaching in Electronic and Electronic Technology Course

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Abstract: Electrical and electronic technology is a required course for engineering majors, involving a wide range of knowledge and a large audience of students. To better play the role of university value guidance and thought guidance, focusing on the "trinity" of talent training objectives of knowledge teaching, ability training, and value shaping, the course team deepens the ideological and political elements of the course, condenses the ideological and political resources of the course, improves the teaching methods, and constructs a scientific evaluation method of teaching effect, Focus on cultivating students' feelings of family, sense of honor and personal character, help students shape correct world outlook, outlook on life and values, and comprehensively improve the quality of talent training, which has certain reference value for the ideological and political construction of engineering technology courses.

Keywords: Curriculum ideological and political; Electrical and electronic technology; Reform practice

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1. Introduction

Curriculum ideological and political resources can fully tap into the ideological and political resources of various courses, give full play to the educational role of each course, and comprehensively improve the quality of talent cultivation. The course of electronic and electronic technology in this paper is specifically the course of Electrical and Electronic Technology I and II, which is a professional basic course for students of mechanical engineering and its automation, mechanical and electronic engineering, and robot engineering. Although the training programs, graduation requirements, and curriculum systems of different majors are slightly different, there are some common parts in the ideological and political training objectives, such as having good ideological and moral cultivation and scientific and cultural literacy, and being able to assume and perform social responsibilities; Strong ability in mathematics, natural science, foreign language, and engineering application; Systematically master the basic professional theories, engineering skills, and innovative methods, have certain basic knowledge of law, economics, etc., and have strong engineering practice and innovation ability; Have good professional quality and professionalism; Have good team awareness and communication skills, and have a certain international perspective. By introducing "ideological and political education" into classroom teaching, we can promote the deep integration of professional education and ideological and political education, and guide values in knowledge teaching and ability training. Integrate ideological and political elements into all aspects of teaching, focus on cultivating students' feelings of family, sense of honor, and personal character, and help students shape the correct world outlook, outlook on life, and values.

2. The Concept and Necessity of Curriculum Ideology and Politics

Curriculum ideological and political education is a new educational concept. Curriculum ideological and political education is based on the revelation and grasp of the laws of education, ideological and political education, and the laws of people's growth and development. Starting from the essential requirements of "educating people", further strengthening the idea of "people-oriented" is the

innovation and sublimation of the concept of education curriculum in the new era. The course ideological and political education is not specific, it is to put the function of ideological and political education in colleges and universities into all course teaching activities, to achieve the integration of knowledge education and ideological and political education in professional courses, to teach and educate people, and to educate students about world outlook, outlook on life and values in daily teaching; Curriculum thinking and politics is a way of thinking. Curriculum ideological and political education highlights the fundamental purpose of the overall development of people and the core and soul of ideological and moral quality. In the course of professional course teaching, we should carry out ideological and political education for students with purpose, plan, and effectiveness. When designing course teaching, the central goal of teaching and educating people has changed. We should put education as the goal of course teaching in the first place and combine it with professional development education^[1-3].

In the course of curriculum implementation, we should pay equal attention to "teaching" and "education", not only imparting knowledge and skills but also cultivating personality. The mastery of knowledge and skills is of great help to the study, postgraduate examination, and employment of subsequent courses, and the cultivation of personality quality has a subtle impact on the recognition of socialist core values and responsibility.

3. Combination of ideological and political education and teaching

3.1 Reconstruct the curriculum structure of ideological and political education and formulate the goal of ideological and political education

This course is a professional basic course and plays an important role in the whole course system. First, construct the ideological and political course structure.

- 1) The teaching content is "ideological and political". Deeply excavate and refine the ideological and political elements contained in the course. During the whole process of teaching implementation, integrate the teaching objectives of the course with the ideological and political teaching objectives of innovation-leading development, science and technology power, integrity, and adherence to professional ethics, and integrate value guidance in knowledge teaching, to achieve the educational goal of knowledge teaching, ability training, and value shaping, which is a trinity, and feedback this from the teaching plan of this course.
- 2) The syllabus is "ideological and political". Integrate ideological education into the curriculum standards, integrate the curriculum characteristics and moral connotation, revise the original curriculum syllabus, preach and teach while cultivating people, and construct the ideological and political education concept.

According to the professional training objectives, the objectives of ideological, political and moral education are formulated as follows:

- 1) Through ideological and political courses, students' ideals and beliefs, road confidence, theory confidence, system confidence and cultural confidence are strengthened; Help students establish core values, carry out education that supports the leadership of the CPC, adhere to the socialist road, loves the motherland, loves the people, loves the collective, and loves the excellent traditional Chinese culture.
- 2) By excavating the ideological and political elements and combining the professional characteristics, the student's sense of hardship will be awakened, and the student's sense of teamwork, responsibility, responsibility, and constitutional rule of law will be established; Cultivate students' spirit of being brave in questioning, innovation, setbacks, and perseverance; The craftsman spirit of keeping improving and pursuing excellence; The scientific spirit of seeking truth from facts and being rigorous and pragmatic; Guide students to analyze problems dialectically and establish scientific materialism.

3.2 Formulate feasible ideological and political teaching methods to improve the teaching level

The spirit of professional ethics and professional ethics should be closely linked with teaching and practice to guide students to truly integrate into ideological and political education, as detailed below.

- 1) Incentive method
- 2) Substitution method
- 3) Analogy
- 4) Discussion method
- 5) Inquiry method

3.3 A scientific and comprehensive evaluation of curriculum ideological and political effects

The effect of curriculum ideological and political construction is a focus of attention in the process of curriculum ideological

and political construction. There is no doubt about the necessity of evaluation, but how to evaluate needs to be further explored, to continuously improve the weaknesses and deficiencies in the evaluation work. Since the improvement of ideological and political quality processes content, the evaluation should pay more attention to the process rather than the result.

- 1) Take a scientific and prudent attitude, attach great importance to the strategy, and advance cautiously in the tactics. Don't act too fast and put the cart before the horse. You can first focus on the standardization of the ideological and political construction of the curriculum, and continue to promote the scientific and standardization of the ideological and political construction of the curriculum. On this basis, we can further explore the effect evaluation of the ideological and political construction of the curriculum.
- 2) Take a systematic and holistic approach, deeply grasp the law of teaching and educating people and the law of students' growth, and evaluate the effect of curriculum ideological and political construction with an eye to the overall effect of student training and the great effect of the school's "three complete education", rather than just limited to the evaluation of the effect of a certain course, which can only be the evaluation of the work level of teachers' curriculum ideological and political development.

4. Teaching Effectiveness

Through two semesters of practice, students can implement ideological and political education while learning professional knowledge of the course:

- (1) It not only cultivates the craftsman spirit of seeking truth and pragmatism, keeping improving and pursuing excellence but also cultivates the excellent quality of being responsible, honest and trustworthy, loyal to the country, and willing to contribute.
- (2) The ideological and political elements should be rooted in history and based on reality. They should not only inherit the historical blood but also reflect the progress of the times.

5. Conclusion

The teaching reform and practice of "ideological and political curriculum" of electrical and electronic technology adhere to the core of moral education and cultivation of people, and around the "trinity" teaching goal, have made beneficial exploration in the aspects of the excavation of ideological and political elements of the curriculum, ideological and political teaching methods, and curriculum evaluation methods, and have achieved good results, which has certain reference value for the ideological and political construction of engineering technology courses.

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