

# Exploration on ideological and political education of electrical major courses in technical colleges

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**Abstract:** Through the ideological and political construction of electrical major courses in technical colleges, students can be helped to better establish moral standards in skill training, shape the correct professional values and outlook on life, which is of great significance to adapt to the electrical field of work and enhance employment advantages. Based on this, this paper first analyzes the ideological and political connotation of the course and its practical significance in the electrical major of technical colleges, and then combines the author's practical experience from different angles to explore its implementation path, in order to provide references for peers.

**Key words:** technical colleges; Electrical major; Course ideological and political; Education; explore

## INTRODUCTION

At present, with the continuous progress of science and technology, all walks of life are undergoing rapid changes. As a member of the high-tech industry, the pace of development of electrical engineering is even more remarkable. However, with the rapid development of the electrical industry, it has also led to a series of social problems, including electrical safety, sustainable development of energy and industrial development. In view of this situation, technical colleges need to strengthen the ideological and political construction of electrical major courses, guide students to integrate professional knowledge learning with the process of ideological and political knowledge learning, and promote them to establish correct cognition and values in the process of pursuing new technology and higher operating level, and enhance social responsibility.

### 1. Curriculum ideological and political connotation

Curriculum ideological and political education is a form of ideological and political education based on subject teaching. It requires the construction of school curriculum system to pay attention to cultivating students' ability of perceptual understanding, value concept and logical thinking. It covers a very wide range and is of great significance to students' establishment of correct cognition and improvement of ideological and moral level. In the construction of curriculum ideological and political education, it is necessary to integrate ideological and political education into every link of subject teaching, carry out ideological and political education based on the whole process of students' learning of subject knowledge, and realize the all-round penetration of ideological and political elements, so as to promote the curriculum to further play the dual educational functions of knowledge imparts and moral character cultivation, achieve more diversified educational goals, and lay a more solid foundation for students' future development.

### 2. The significance of ideological and political construction of electrical major courses in technical colleges

In the electrical major of technical colleges, the course ideological and political construction has very important practical significance. First of all, the course ideological and political construction of electrical major can help students establish a correct world outlook, outlook on life and values. In the learning process of electrical courses, students need to master more knowledge, if the lack of correct ideological guidance, then this knowledge may be abused. Adding ideological and political elements to professional courses can guide students to understand the application scope and limitations of electrical technology, correctly view the relationship between technological development and social progress, and develop correct professional ethics and values, which can lay a foundation for their future work in the electrical industry. Secondly, the ideological and political construction of electrical courses can also improve students' sense of social responsibility and their enthusiasm to participate in social construction. Electrical technology has become an indispensable part of the current social production and life. However, the development of related technology has brought various conveniences to people's life and work, but also brought a lot of negative impacts to society, environment and individuals. Therefore, it is an important responsibility of ideological and political education to add ideological and political elements to electrical courses, guide students to understand the relationship between electrical technology and society, clarify their social responsibilities, and stimulate students' interest and enthusiasm to participate in social construction with their professional advantages. In this way, teachers can guide students not only to pay attention to the technology itself, but also to its role and influence on society, and urge them to actively explore more environmentally friendly and energy-saving working methods and emerging technologies. Finally, the ideological and political construction of electrical courses can promote the cultivation of students' lifelong learning consciousness and innovative spirit. With the continuous development of electrical technology today, a good electrical engineer needs to have the ability of continuous learning and innovation. The ideological and political construction of the curriculum precisely focuses on the development of students' ideological level, which can stimulate students' interest in learning, cultivate their lifelong learning habits, and enhance students' innovative consciousness and ability. These qualities can not only have a profound

impact on their personal growth, but also have a positive role in promoting the development of the electrical industry through students' practical activities.

### **3. The implementation of ideological and political education of electrical major courses in engineering colleges and universities**

#### **3.1 Introduce hot issues to enhance students' cognition**

In the implementation process of ideological and political education of electrical major courses in engineering colleges and universities, hot issues should be introduced according to local conditions in combination with students' thinking and living conditions at the time of admission, while ensuring correct information and maintaining professional characteristics, and guiding students to conduct in-depth exploration of relevant issues and knowledge points. In this way, guiding students to consider practical problem solving methods based on a higher position and look at the development of electrical technology can help students better adapt to the working environment. First of all, on the basis of popularizing the electrical profession, teachers should introduce many important policies and basic knowledge about the electrical industry, including the installation, operation and maintenance knowledge of electrical equipment, as well as safety issues, environmental protection issues, energy issues and environmental issues in the process of manufacturing and application of electrical equipment, and guide students to see the development of science and technology based on the level of social development. Secondly, teachers guide students to gradually build up a scientific way of thinking and attitude towards life by discussing and reading various literatures. For example, teachers can introduce cases related to solar lighting and guide students to explore energy-saving issues in the field of light source and lighting. Thirdly, by guiding students to design solar lighting schemes in combination with actual scenes, students can cultivate their green development awareness, innovation ability and practical ability. The teaching practice shows that by guiding students to transition from theoretical analysis to practice, it not only helps students master electrical professional knowledge, but also promotes the improvement of students' understanding.

#### **3.2 Enhance classroom interaction and deepen students' understanding of knowledge**

Full and effective classroom interaction is an important means to deepen students' knowledge understanding and promote their professional level and ideological and moral quality. In the process of integrating ideological and political elements into electrical courses of technical colleges, it is necessary to enhance classroom interaction, guide students to deepen their understanding of knowledge in the process of independent knowledge exploration, and enhance their attention to social ethics and humanistic literacy. First of all, in the course of teaching, teachers can use more inquiry-based teaching methods to encourage students to deeply participate in knowledge exploration. For example, when explaining electrical knowledge, some social practical application scenarios and industry laws and regulations can be involved, and combined with its outstanding questions with inquiry value, to encourage students to actively think and answer, so as to improve students' classroom participation and learning interest. Secondly, teachers need to make use of information technology to improve the classroom interaction effect. Combined with the content to be presented, the online teaching platform can be introduced into the teaching process, and students can be guided to raise new questions or opinions through the online teaching platform on the basis of watching pictures and videos. Thirdly, in order to enhance the inspiration for students, teachers can appropriately add their own life experience in the teaching, and guide students to explore practical problems that are closer to life. Finally, teachers should pay attention to improving students' sense of social responsibility and strengthen the integration effect of ideological education elements. For example, teaching safety knowledge and environmental protection knowledge in combination with students' inquiry progress can promote students' thinking about social responsibility.

#### **3.3 Strengthen the construction of teaching staff and consolidate the foundation of ideological and political construction of the curriculum**

With the development of The Times and the progress of society, vocational education has entered a new period, and the old educational methods and teaching models are gradually difficult to meet the needs of modern education. In this wave of educational reform, curriculum ideological and political construction is an extremely important task. Teachers are the basic guarantee of high-quality teaching and an important participant in promoting the ideological and political construction of electrical courses in technical colleges. In order to consolidate the foundation of curriculum ideological and political construction and improve teachers' ability of curriculum ideological and political teaching, it is necessary to effectively improve teachers' ideological and political quality and enhance teachers' knowledge of educational and teaching theories. First of all, colleges and universities should improve teachers' ideological and political level, which is the premise of improving their ideological and political education ability and ensuring that the effect of curriculum ideological and political education meets the expectation. For example, schools can organize relevant political theory training, guide teachers to understand the principles and policies of the state, enhance teachers' sense of unity, and make them realize their responsibility and important role as teachers of the people. It can strengthen the construction of teachers' ethics and style, and enhance teachers' sense of responsibility and mission. Secondly, schools should improve the mechanism of teacher education and training, so as to provide corresponding learning platforms for teachers to further improve their ideological and political implementation ability in the curriculum. In other words, through the continuous improvement and optimization of the teacher training mechanism, the training should be closely linked with the actual curriculum ideological and political construction needs, so as to create convenient conditions for teachers to learn practical teaching methods. In this process, it is necessary to guide teachers to carry out ideological and political education throughout the electrical course teaching, strengthen the monitoring of the

teaching process, develop to “double teacher” teachers, and constantly self-reflect and self-improve in the teaching, and then master the effective method of combining the needs of industry and social development, personalized integration of ideological and political elements in subject knowledge teaching. Thirdly, the school should also strengthen the cooperation with enterprises, establish a school-enterprise joint education model, for students to practice professional knowledge and ideological and political knowledge, teachers to understand the electrical field of talent requirements to provide conditions.

3.4 Promote the monitoring and evaluation of the implementation process and effect, and improve the effectiveness of curriculum ideological and political construction

On the one hand, the monitoring of the implementation process of ideological and political education in the course of electrical major can help teachers timely understand the development of ideological and political education in the course, find out the problems and shortcomings, and improve the teaching mode. Teachers can monitor the course ideological and political construction process from multiple perspectives, such as students’ classroom performance, final exam results, students’ social practice performance, etc., which reflect the course ideological and political teaching process. Through these indicators, teachers can timely understand the integration of ideological and political education and subject teaching process, carry out “misalignment monitoring” of the problems, correct and improve them in time, and provide a better guarantee for the deep integration of the two. On the other hand, teachers can conduct a comprehensive evaluation of the results of ideological and political education in electrical courses, which will provide an effective reference for the future curriculum design and education reform. The evaluation of teaching effect mainly involves the level of “output” and “input”. For example, teachers need to carry out the “output” level ideological and political education evaluation of electrical major courses through the assessment of graduates’ arrival on the job and students’ personal ability; It is necessary to carry out the “input” level of ideological and political education evaluation of electrical professional courses through the evaluation of course design and the development of educational resources. The relevant evaluation criteria involve the setting of course content, the updating of course textbooks, and the strength of teachers. Taking into account the above two points, strengthening the monitoring and evaluation of the implementation process of ideological and political education in electrical courses is an inevitable requirement for promoting the overall development of students. As a professional course teacher, we should obtain the corresponding information through comprehensive and multi-channel monitoring and evaluation of ideological and political education of electrical courses, and gradually improve the course design, enhance the ideological and practical effectiveness of the course, so as to lay a solid foundation for the cultivation of noble ideology, morality and humanistic quality for electrical students.

## Epilogue

To sum up, the ideological and political construction of electrical courses in technical colleges is of great significance to the training of excellent electrical technical personnel and the teaching effect of professional courses. Teachers should constantly promote the ideological and political construction of the curriculum, and promote students to receive comprehensive and effective ideological education in technical training and technical knowledge learning, so as to help them realize the dual value of individual and society. In the implementation of ideological and political education for electrical major courses in industrial colleges and universities, hot issues should be introduced, classroom interaction should be enhanced, the construction of teachers should be strengthened, and the monitoring and evaluation of teaching implementation should be promoted, so as to constantly improve the way of ideological and political construction in the course and promote the coordinated development of students’ literacy in all aspects.

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