



# **Exploration and Practice of Teaching Reform of Engineering Cost Integrated with Ideological and Political Concept**

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**Abstracts:** “Moral education first” is the fundamental task of quality education in China. At present, all kinds of courses should go with ideological and political theory to form a synergistic effect. Under the background of ideological and political education, how to give full play to the ideological and political teaching function of Engineering Cost is the focus of the current teaching reform. This paper analyzes the necessity and principles of integrating the course of Engineering Cost into ideological and political education, and puts forward the practical strategies of teaching reform.

**Keywords:** Curriculum, Ideology and Politics; Engineering Cost; Reform in Education; Practice

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## **1. Introduction**

Classroom is the carrier of teaching, teachers are the main body of teaching, whether it is professional knowledge or educational role, must be realized with the help of classroom development. General Secretary Xi Jinping once pointed out that “we should persist in taking the moral education as the central link, and integrate ideological and political education throughout the teaching process, so as to achieve full process, full staff and all-round education.”[1] This also further clarifies the goal of ideological and political education in colleges and universities. As professional course teachers, they should actively respond to the teaching reform of ideological and political education in the course, make full use of the classroom, which is an important carrier of ideological and political education in the course, and enhance the value of professional courses from the perspective of comprehensive education, in order to make them effectively integrate into the content of Ideological and political education, tap the moral education resources in the course, and better help students improve their ideological awareness, political position, moral cultivation and cultural quality, as well as make them become future talents with excellent character and comprehensive development.

## **2. The necessity of integrating Engineering Cost into ideological and political education**

In the traditional ideological and political education, ideological and political teaching is mainly based on Ideological and Moral Cultivation and Quality, Situation and Strategy. However, there are systematic teaching theories in these courses. At the same time, in view of the lack of class hours, boring curriculum and other problems, it is difficult for students to generate interest, and ideological and political teaching is difficult to achieve good educational results. So, integrating the ideological and political teaching into the teaching of Engineering Cost course, and integrating the ideological and political teaching content with the appropriate position, subtle way and fitting the actual needs of teaching can not only improve the students’ interest in learning professional courses, but also help them to obtain the ideological and political knowledge, and further improve their personal ideological and political awareness and moral quality. Therefore, teachers should dare to practice and innovate, actively integrate the ideological and political teaching concept into the course of Engineering Cost, and boldly reform the teaching ideas and modes, so as to promote the high-quality implementation of professional teaching, and achieve good results of ideological and political teaching.

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### **3. Teaching reform principles of Engineering Cost integrated with ideological and political ideas**

#### **3.1 Following the fundamental principles of innovative teaching and moral education**

The development of education forces us to change and innovate in time. Only by continuous innovation can we adapt to the actual needs of modern education and students, and effectively change the dull teaching atmosphere of the original traditional classroom. In the teaching reform of Engineering Cost course, innovation mainly depends on teachers' teaching ideas and thinking. Through the innovation of teaching plan, teaching mode, teaching method and interactive method, students' interest in professional courses is widely attracted. For example, the background and representative works of some outstanding engineering architects at home and abroad are introduced in the classroom teaching, so as to shock the students and set a good example for them to learn from. By telling about their conscientious and constantly improving craftsman spirit, the students' learning enthusiasm and career orientation are stimulated, and their sense of mission to the society and the industry is improved, so as to strengthen their professional learning belief.

#### **3.2 Teaching principles guided by establishing correct professional values**

At present, the teaching of ideological and political education in China has transited to a new period. As the main body of education, teachers should actively explore various bottleneck problems existing in the development of Ideological and political education, such as solving the problem that the theory and practice of ideological and political curriculum are not compatible through curriculum ideological and political education, so as to change the current situation of ideological and political education in colleges and universities and shoulder the mission of Ideological and political education in the new period, in order to improve the influence of Ideological and political education. Based on this, through the integration of Engineering Cost course into the ideological and political teaching content of the course, we should bear the brunt, help students establish correct professional values, and actively adjust the ideological and political mode of the course, in order to optimize professional curriculum resources, and reform the teaching mode of the course.

### **3. On the teaching reform and practice strategy of Engineering Cost integrated into the ideological and political concept of the course**

#### **3.1 Paying attention to the practical application of curriculum theory guidance**

In order to realize the teaching reform of Ideological and political education in the course of Engineering Cost, we should first change the traditional single teaching mode, let students understand the whole process of investment decision, construction arrangement and completion acceptance of construction project through classroom teaching, and finally let students be able to independently calculate the cost of each link of a specific engineering construction project. This includes engineering investment estimation, engineering design estimation, engineering revised estimate, engineering construction budget, engineering settlement and engineering completion final account[2]. However, there is a certain gap between textbook knowledge and actual engineering cases, which requires teachers to start from practical application, take specific engineering construction projects as carriers, and organically combine course teaching knowledge with actual engineering projects, so that students can better master the professional ability related to engineering cost, and make students understand the importance of theory and practice application from the learning process.

#### **3.2 Cultivating innovative talents with scientific logical thinking system**

Cultivating students' open learning thinking is advocated by modern quality education. The development of society needs more talents with inquiry spirit and innovative consciousness. If students lack the ability of thinking transformation, they will be difficult to adapt to the development needs of society and construction industry. Now we are in the new era of information and intelligence. Only by changing the traditional teaching thinking and mode, forming the thinking mode of professional courses through the scientific logical thinking system, and integrating the ideological and political elements into teaching, can teachers help students better improve their independent thinking ability and cultivate their innovative consciousness [3]. In the future, China should strive to become an innovative power, which is

inseparable from the innovation source power of the young generation in colleges and universities. Therefore, teachers must actively cultivate students' divergent thinking and expansionary thinking, and let students love their own majors, so as to constantly improve themselves in learning, devote themselves to the development and construction of the country with new architectural field vision and career planning concept.

### **3.3 Paying attention to the cultivation of students' comprehensive professional quality and realizing the coordinated development**

With the development of society and education, the technical means of various industries are updated and improved, so we should also highlight the innovation of teaching technology in the implementation of Engineering Cost course, actively encourage students to strengthen their learning and thinking ability, and strive to promote the innovation and development of construction engineering industry through their own professional knowledge. In the actual teaching, teachers should be good at using new media teaching software and equipment to present students with the technical skills used in the actual engineering projects in the classroom practice, so that students can integrate the knowledge of construction engineering cost with computer graphics, engineering materials, construction technology, engineering measurement, architectural design, enterprise management and other knowledge, so as to achieve the teaching purpose of collaborative development, and enhance students' professional comprehensive ability.

### **3.4 Constructing campus learning platform and optimizing teaching channel**

In the course of ideological and political reform, colleges and universities should be good at using the influence of the Internet to upload teaching materials through the campus online learning platform; With the integration of the nineteen conference spirit, we have publicizing the development of our construction industry in recent years, with the help of the campus micro-blog and WeChat official account. Through some classic architectural projects, students can witness the power of architectural technology and feel the ingenuity in architecture, so that they can understand the hard work and hardships of engineering scientists from behind the great works. In the future employment, we will always maintain a good quality of engineering personnel and keep in mind the mission entrusted by the society and the industry.

### **3.5 Constructing the assessment system of ideological and political education**

After the completion of the course of Engineering Cost, teachers should integrate the ideological and political teaching content into the assessment scope and set up a certain proportion of Ideological and political knowledge credits; Teachers can also assess the ideological and political information in class after the end of the ordinary course teaching, which can not only improve the students' awareness of active learning, but also better supervise the ideological and political content into the professional teaching classroom, further optimize the course assessment system, and innovate the teaching assessment methods.

## **4. Conclusion**

In short, it is an inevitable demand for colleges and universities to cultivate talents in the new era to integrate the ideological and political concept into the teaching of professional courses. As professional course teachers, they should actively comply with the trend of curriculum reform, boldly innovate the teaching mode, and enrich the professional teaching content, so as to excavate the ideological and political elements of the course, optimize the curriculum evaluation system, and constantly improve students' professional knowledge and practical operation, as well as improve students' professional innovation awareness, industry ethics standards and social responsibility mission.

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