

Exploration and Practice of Ideological and Political Teaching in Organic Chemistry Courses in Colleges and Universities

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Abstract: In recent years, under the promotion of the Ministry of Education of the People's Republic of China, the construction of ideological and political in colleges and universities has been in full swing. The purpose is to use the long-term operation and collaborative innovation mechanism of the new teaching model to guide college students in the new era to form a correct world outlook, outlook on life and values. Organic chemistry is a compulsory course for students majoring in chemistry, chemical engineering, materials, medicine and other related majors in colleges and universities, and it is a necessary way for students to establish basic knowledge. Taking the organic chemistry course as an example, this paper analyzes the current situation and existing problems of ideological and political teaching, puts forward strategies and suggestions for the implementation of ideological and political teaching in colleges and universities, and tries to provide a useful reference for the ideological and political education of professional courses in colleges and universities.

Keywords: Organic chemistry, Course ideology and politics, Exploration and practice

1. Introduction

At the National Conference on Ideological and Political Work in Colleges and Universities in 2016, General Secretary Xi Jinping proposed: "We must insist on taking morality and cultivating people as the central link, and run ideological and political work throughout the entire process of education and teaching, so as to achieve full education, full people education, and all-round education, and strive to create a new situation for the development of our country's higher education." General Secretary Xi Jinping's important statement pointed out the direction for ideological and political teaching in colleges and universities. Colleges and universities are important camps for cultivating talents for the country. Under the background of the new era, the ideological concepts of college students tend to be diversified. How to guide the contemporary college students to form a correct world outlook, outlook on life and values with higher ideological and political literacy is an important task of higher education [1].

Organic chemistry is an important basic course in colleges and universities, and it is a subject that studies the composition, structure, properties and changing laws of substances. Organic chemistry is an important basic subject of scientific research, and has strong practical application. The organic chemistry course contains many ideological and political elements, and the full integration of ideological and political elements with professional knowledge can cultivate college students with higher theoretical knowledge and strong scientific literacy simultaneously in the new era, which is of great significance to the development of higher education in our country in the new era.

2. Current Status and Existing Problems

2.1. Lack of Professional Teaching Team

At present, the current situation of ordinary colleges and universities is that organic chemistry teachers pay too much attention to how to better promote the teaching of scientific knowledge, but do not pay enough attention to the significance of ideological and political education in organic chemistry teaching. Young teachers with good educational backgrounds and high academic qualifications are the main force of college teachers. They have heavy scientific research tasks to be completed in a short

period of time. In addition, they also play the roles of professional course teachers and counselors, which requires a reasonable allocation of time and energy. The lack of professional teachers will lead to the loss of the significance of ideological and political education in organic chemistry teaching eventually [2].

2.2. Lack of Systematic and Comprehensive Understanding of Curriculum Ideological and Political Teaching

For a long time, the content of ideological and political teaching in colleges and universities is more reflected in special ideological and political courses. Under the influence of this teaching inertia, the majority of professional course teachers also lack corresponding ideological and political concepts, which makes the ideological and political education of professional courses in an embarrassing situation. The current teaching system separates ideological and political education from professional curriculum education, and the teaching management system also lacks quantitative standards for the assessment of teachers' ideological and political education. The main way for most teachers to teach and educate people is to transmit positive energy in classroom teaching and daily work. However, personal learning of ideological and political theory is insufficient, lack of systematic and advancing ideological and political learning, fragmentation of ideological and political theory knowledge, lack of experience in ideological and political education in teaching practice, and limited methods and abilities.

2.3. Lack of In-depth Excavation and Innovative Integration of Ideological and Political Resources Contained in Professional Course

At present, the classroom teaching of organic chemistry mostly uses scripted lectures to carry out ideological and political education, which affects greatly the effect of ideological and political education. The ideological and political education in the classroom should be connected closely with the thoughts, study and life of college students in order to resonate with the students. Some students only pay attention to the learning of professional knowledge, but ignore the shaping of their own ideological quality. Teachers should take ideology as the leading role, and focus on finding the appropriate entry point for ideological and political education in this professional field according to the characteristics of organic chemistry curriculum knowledge.

3. Exploration and Practice of Improving the Quality of Ideological and Political Teaching of Organic Chemistry

Through the previous analysis of the current situation, we found that the low quality of ideological and political teaching of organic chemistry is mainly caused by the lack of professional teachers, the lack of systematic and comprehensive understanding of the ideological and political teaching of the professional course, and the lack of in-depth understanding of the ideological and political resources contained in the professional course. For the above problems, we explore the corresponding solutions and can take the following measures:

3.1. Cooperate with Ideological and Political Teachers to Strengthen the Cultivation of Ideological and Political Teaching Ability of Teachers' Courses

In response to the lack of professional teachers, organic chemistry teachers in colleges and universities can actively cooperate with ideological and political teachers to cultivate students' good professional quality and skills. Students are urged to listen to lectures related to ideological and political education and discuss professional and practical issues with others. Organic chemistry teachers should encourage students to combine the knowledge they have learned in the classroom with practical applications, to popularize chemical safety knowledge for community residents, and to organize health education activities. In this activity, students will feel their value to the society and cultivate their interest in their majors [3].

3.2. Systematic and Comprehensive Formulation of Ideological and Political Teaching Objectives and Syllabus for Organic Chemistry Courses

Reasonable teaching goals are a prerequisite for realizing education and teaching. In the teaching of "course ideology and politics", the first thing to do is to clarify the teaching goals of course ideological

and political. The ideological and political education is added to the general goal of organic chemistry teaching, and then teachers design the teaching content and implement it according to the teaching goal. According to the requirements of ideological and political teaching, combined with the characteristics of the major, through discussions and exchanges in the teaching and research room, the ideological and political teaching objectives of the organic chemistry course are formulated, and the revision of the syllabus is completed. With a clear course ideological and political teaching objectives and a new syllabus, it will lay a solid foundation for a systematic and comprehensive organic chemistry ideological and political teaching.

3.3. Deeply Excavate the Ideological and Political Elements of Organic Chemistry, and Establish a Case Library in Organic Chemistry

As an important basic discipline, organic chemistry contains many ideological and political elements. We can build a corresponding ideological and political case library according to the chapters. According to the syllabus of the course, combined with the professional knowledge points of the chapters, the ideological and political connotations are excavated and integrated into a specific ideological and political case database for organic chemistry courses. The organic chemistry "course ideology and politics" case library can be established based on the development history of organic chemistry: First, we can excavate the stories of scientists in the development history of organic chemistry, from which we can understand the quality of scientists; second, we can present the twists and turns in the development of organic chemistry and from which we can understand the indomitable scientific spirit; third, we can highlight the key role our country played in the history of organic chemistry, and from which we can cultivate the patriotism of college students [4]. These case bases can be transplanted and used in actual teaching, realizing the seamless connection and natural transition of professional knowledge and ideological and political resources, and also conducive to the reference and promotion of other courses.

4. Conclusions

The college period is a critical period for the formation of students' world outlook, outlook on life and values. It is one of the important tasks facing colleges and universities to improve the ideological and political literacy of college students through ideological and political courses and to cultivate new talents of the times. Organic chemistry is a very important professional basic course for science and engineering students in colleges and universities. Therefore, it is very necessary to carry out ideological and political education in organic chemistry courses. Starting from the analysis of the problems existing in the ideological and political teaching of organic chemistry courses, this paper puts forward strategies and suggestions for the implementation of ideological and political teaching in professional courses in colleges and universities, implements fully the course ideological and political teaching in the teaching process of organic chemistry, and tries to provide useful reference for the ideological and political education of professional courses in colleges and universities.

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