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Exploration and Practice of Curriculum Ideological and Political Integration into Inorganic and Analytical Chemistry Curriculum

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Abstract: Course ideology and politics is a new direction for the future development of higher education in my country. From the perspective of actual teaching content, inorganic and analytical chemistry courses are highly theoretical, and it is difficult to integrate ideological and political elements into the actual teaching process. Therefore, schools should first strengthen the cultivation of ideological and political abilities of college teachers. This paper first analyzes the importance of integrating inorganic and analytical chemistry courses into ideology and politics. Secondly, it analyzes the problems existing in the current ideological and political teaching activities of this course and proposes diversified solutions, so as to better integrate ideological and political elements into teaching activities.

Keywords: Course ideology and politics; Inorganic and analytical chemistry; Course; Practice

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1. The ideological and political significance of inorganic and analytical chemistry courses

1.1 Cultivate compound talents with ideological and political literacy

The premise of realizing the great rejuvenation of the Chinese nation is to have a solid talent foundation. Colleges and universities are important bases for the cultivation of professional talents in my country. Colleges and universities should integrate chemistry with ideological and political elements, and explain ideological and political knowledge to students in inorganic analytical chemistry courses, so as to realize the transformation of professional talents to compound talents^[1].

1.2 It is of great significance to social development

From the perspective of social development, chemistry is of great significance to social development. At present, my country's food industry, light industry, and heavy industry all need to use chemical knowledge. Taking the food industry as an example, various product raw materials such as additives, preservatives and flavoring agents in the food industry need to be synthesized or extracted by chemical means^[2].

2. Ideological and political problems in inorganic and analytical chemistry courses

2.1 It is difficult to integrate professional knowledge with ideological and political content

From the perspective of course content, inorganic and analytical chemistry courses are mainly divided into multiple chapters such as gases and solutions, chemical reaction rates and chemical equilibrium, chemical analysis, etc. These chapters usually have strong theoretical knowledge. Students need a lot of time to understand relevant chemical concepts, principles, and calculations, which have less connection to social practice.

2.2 University education requirements continue to improve

In recent years, with the rapid development of my country's social economy, new engineering requires that university education

must conform to the current social development and cultivate professional talents who can meet the needs of enterprise talents. Students not only need to study inorganic and analytical chemistry courses, but also need to integrate food, biology and other fields with them to become compound talents.

2.3 Insufficient knowledge of curriculum ideology and politics

Inorganic and analytical chemistry courses belong to science and engineering. Students and teachers of science and engineering usually have more rigorous logical thinking. They pursue efficiency and focus on logic in their daily work or life. Although this method can improve their learning and work efficiency.

3. Implementation strategies of ideological and political teaching in inorganic and analytical chemistry courses

3.1 Strengthen the ideological and political awareness training of teachers and students

Teachers are the main body of integrating ideological and political elements into teaching activities. Therefore, in order to better cultivate students' ideological and political awareness, it is first necessary to strengthen teachers' cognition of ideological and political teaching activities, so as to better promote the integration of subsequent ideological and political elements into teaching activities. Advancement of work. Schools need to attach importance to the cultivation of teachers' ideological and political abilities in courses, which should be carried out from the following three aspects: First, in the daily teaching process, teachers not only need to provide students with explanations of chemical knowledge, but also need to regularly participate in ideological and political theory training. This training can be learned through online learning platforms, or offline learning such as multimedia classrooms.

3.2 Mining the ideological and political elements of the curriculum

From the perspective of teaching content, inorganic and analytical chemistry courses have many branch fields, and their professional content has a strong connection. However, both chemical analysis and related experiments are the conclusions drawn by outstanding chemists in my country after several years or even decades, and this feature is an important basis for teachers to carry out ideological and political teaching.

Therefore, teachers first need to fully tap the ideological and political elements contained in the curriculum. For example, the description chapters on quantitative chemical analysis in inorganic and analytical chemistry courses demonstrate scientific rigor and truth-seeking attitudes. The basic principle of chemical reaction initially describes chemical balance, but teachers can elevate it to the balance between man and nature. Teachers should explain to the students about acid-base and acid-base balance: acid-base theory is very important to the development of human beings and society. of.

3.3 The organic combination of teaching and research and ideology and politics

Because inorganic and analytical chemistry courses have strong theoretical characteristics, teachers usually explain relevant knowledge to students by combining practice with traditional teaching methods. In order to better help students improve their cognition of inorganic and analytical chemistry courses, teachers can combine scientific research and teaching activities to teach by scientific research. And in the teaching process, ideological guidance is provided for students through ideological and political education, so as to give full play to the subjective initiative of students. This can not only achieve the purpose of teaching and educating people, but also build morality and cultivate people, and train students into compound talents who can promote the development of our country.

Teaching can help students better master professional knowledge, using scientific research methods can make students use knowledge flexibly, and combining ideological and political elements with teaching and scientific research activities can achieve an organic combination between the three, better Implement the goal of three comprehensive education.

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