The Practical Exploration of Integrating Ideology and Politics Theories Teaching into “502 Innovation Laboratory”

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Abstract: “502 Innovation Laboratory”, based on general secretary Xi Jinping’s speech on ideological and political theories teaching in all courses, gradually explores the transition from ideological and political courses to ideological and political theories teaching in all courses, and promotes the comprehensive and coordinated development of students’ knowledge, ability, thinking and quality. It has achieved fruitful results, enhanced the school’s influence, and played a significant exemplary role.

Keywords: Ideology and politics theories, Morality education, Reform, Innovation.

1. Introduction

In August 2020, when attending a seminar for teachers of ideological and political theory, general secretary Xi Jinping emphasized that we should attach importance to the construction of ideological and political courses, promote curriculum reform, improve the curriculum system, and solve the problem of coordination between various courses and ideological and political courses[1]. He also encouraged famous teachers to give lectures in Ideological and political classes, to solve the problem of promoting the complementarity of ideological and political teachers and other teachers, to promote ideological and political work into the talent training system, and to give play to the synergistic effect of morality education through integration, embedding and infiltration[2].

“502 innovation laboratory” was officially established in November 2004. It is an open laboratory for students of Shaanxi University of technology, providing students with an experimental platform for subject research, independent design and independent production. In recent years, relying on the support of relevant projects and in accordance with the spirit of the central instructions, the laboratory has gradually explored the transition from ideological and political courses to ideological and political theories teaching in all courses, and promoted the comprehensive and coordinated development of students’ knowledge, ability, thinking and quality through practice.

2. Ideological and Political Theories

Ideological and political theories teaching in all courses refers to a comprehensive educational concept in the form of building a whole staff, whole course and whole course education pattern, forming a synergistic effect with various courses and ideological and political theory courses, and taking morality education as the fundamental task of education[3]. The main form is to integrate the elements of ideological and political education, including the theoretical knowledge, values and spiritual pursuits of ideological and political education, into various courses, and subtly influence

students’ ideology and behavior.

The subject of ideological and political theories teaching in all courses is morality education, and a sound person must have both ability and political integrity[4]. Teachers cultivate students not only to inculcate knowledge, but to educate students through all-round and diversified education, which will imperceptibly influence students’ values and scientific outlook, and shape promising young people with a sense of national pride, cultural self-confidence and a sound personality[5].

3. Specific Measures

“502 innovation laboratory” continuously promotes the reform of the curriculum system based on national policies and guidelines, and constructs the pattern of ideological and political theories teaching in all courses.

3.1 Cultural Construction

The purpose of “502 innovation laboratory” is “独立之精神，自由之创造”，which means that in the laboratory, we should not only cultivate scientific and technological talents with innovative thinking, but also cultivate high-quality talents with responsibility, ideals and beliefs.

In addition, the famous remarks of famous scientists, educators and entrepreneurs, the speeches of graduates on innovation practice and the inscriptions given to the laboratory by academician Jia’er Chen, former president of Peking University, are arranged in the innovation laboratory to guide students to advocate virtue and ability, pursue truth, innovate and start businesses, serve the society and serve the country. While educating people in teaching, management and service, let the cultural environment also educate people, highlighting the educational function of practical teaching.

3.2 Cognitive Test

Before the students enter the laboratory, there is a link called

the cognitive test experiment. The experiment has four questions:

Question 1: After blindfolding, walk alone for 50m in a straight line. Do you think you can walk straight? Why?

Question 2: With the oral help of several team members, walking in a straight line with blindfolded eyes for 50m, do you think you can walk straight? Why?

Question 3: After the two experiments are completed, compare and analyze the deviation of the two walks?

Question 4: What do you think about the above experiment (behavior)?

The first two questions are answered before practice, and the latter two questions are considered carefully after practice, and then answered. Finally, a unified whole-process teaching of ideological and political course is carried out to analyze the essence and explore the truth. Through experiments and discussions, students understand their personality characteristics from the cognitive level, recognize their strengths and weaknesses, and recognize their values, life direction and goals.

3.3 Teaching Methods

The laboratory adheres to the concept of “love first, interest guidance, focus on process, and seeking practical results”, and adopts the method of “teacher guidance, senior students lead, and self-examination”. From the object to subject, students are encouraged to explore independently, try boldly, and combine students’ innovative practice with various levels of science and technology competitions and innovative projects, which not only meets students’ self-realization desire, but also tests and improves students’ innovative practice ability, so as to realize the goal of cultivating applied talents.

4. Achieved Results

In 2007 and 2013, when Fengtai Liu, the former director of the department of higher education of the ministry of education, came to the school twice for guidance, he highly praised the innovative practical teaching mode of applied talents in the electric field of our school, instructed to continue to increase investment, and inscribed with pleasure: “提高动手能力、培育创新人才”.

In December 2014, Shaanxi federation of trade unions set up “Pei Liu model worker Innovation Studio” in our university. This not only affirms the exploration and practice of its innovative practical teaching mode, but also guides college teachers to promote the spirit of model workers and continue to explore the reform of applied talent training mode, so as to expand its influence to the whole province.

In recent years, only the former “Freescale” (now “NXP”) smart car competition for category A events has won 15 national awards and 69 provincial and ministerial awards. In

addition, the laboratory actively participated in the application of College Students’ innovation and entrepreneurship projects, and obtained 45 national projects, 62 provincial projects and 40 school level projects, which directly benefited more than 2000 students.

5. Conclusion

“502 innovation laboratory”, relying on the pattern of ideological and political education and people’s Congress, constantly innovating and innovating, has achieved fruitful results in education and teaching, expanded the impact of our school in the whole province and even the whole country, played a significant exemplary role.

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Author Profile

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