

Teaching Research and Practice of Java Programming Integrated with the Ideological and Political Concept of the Course

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ABSTRACT

In recent years, the Ministry of education has issued a number of documents to emphasize the construction of curriculum ideological and political education. All kinds of colleges and universities are actively carrying out this work. However, many teachers are still unclear about the "three core issues" of curriculum ideological and political education in their work, and there are still many doubts in the operation level. Combined with the construction background of Ideological and political course and my own practical experience, this paper discusses the "three core issues", and gives a detailed teaching design scheme of Ideological and political reform of this course by taking the computer professional course "Java programming" as an example, so as to form a new thinking, new pattern and new mode of Ideological and political course.

Keywords: *Higher education, Curriculum ideological and political education, Java programming, Computer major.*

1. THE BACKGROUND OF "CURRICULUM THINKING AND POLITICS"

1.1. *The Spirit of the Central Document*

The eighteen Party Congress held in November 2012 marked the beginning of a new era of socialism with Chinese characteristics. In November 29, 2012, general secretary Xi Jinping visited the exhibition of "review road", presented the Chinese dream of great rejuvenation of the Chinese nation, and held the National College Ideological and political work conference in December 2016. The meeting clearly pointed out what kind of people to train, how to train people and how to train China China. Who to train people for is the fundamental problem of education. The foundation of a university is to establish morality and cultivate people. It is clear that the ideological and political work should run through the whole process of education and teaching to realize the whole process and all-round education. It is necessary to explore the ideological and political education elements and functions contained in various courses in Colleges and universities, integrate them into all links of classroom teaching, realize the organic unity of Ideological and

political education and knowledge system education, and realize that all classrooms have educational functions and all teachers have educational responsibilities. "In October 2017, the 19th National Congress of the Communist Party of China (CPC) was held, which further defined the "two centenary" goals and put forward the idea of "training the new generation of the times to undertake the task of national rejuvenation"; in September 2018, the national education conference was held, which emphasized the cultivation of socialist builders and successors with all-round development of morality, intelligence, sports, beauty and labor.

1.2. *The Deep Reasons of Curriculum Ideological and Political Education*

Why does the state intensively issue so many documents to discuss a series of issues such as "moral education", "curriculum ideological and political education"? General secretary Xi Jinping talked about it in many meetings and many places. At present, China's economy has made rapid progress, and our strength has become stronger. However, the external obstacles and pressures we face are also becoming bigger and bigger, and the crisis will be more severe. This is an inevitable

challenge for China to grow from strong to strong.

"If you want to know the road, you must first be history. To destroy a country, we must first go to its history. ". Keep history in mind and learn from it. We must attach importance to the ideological work of young students, strengthen the patriotic education, legal education and safety education of young people, and enhance students' patriotic consciousness and feelings of home and country. For our front-line teachers, we should firmly support the party's leadership, implement the party's education policy, and help students form correct three outlooks and feelings of family and country while imparting knowledge in class, so as to play the role of value guidance; we should guide students to deeply understand the relationship between Chinese culture and professional disciplines, the relationship between national development and personal growth, so as to adhere to the four self-confidence, national development and personal growth Family and country feelings contribute to socialist construction.

As far as our teachers are concerned, we should stick to the educational concept of "teaching and educating people", make good use of the main position of classroom teaching, and educate people while teaching. Ideological and political work can not only be regarded as a matter of Ideological and political theory courses, each course should keep its own section of the canal and plant a good responsibility field. We should integrate the basic principles of life and work, the requirements of socialist core values, and the ideal and responsibility of national rejuvenation into all kinds of curriculum teaching, so that all kinds of courses and ideological and political theory courses can go together and form a synergistic effect.

2. HOW TO DO "IDEOLOGICAL AND POLITICAL COURSE"

(1). School level. The school should do the top-level design, have the overall idea of guiding teachers to carry out the curriculum construction, and summarize the characteristic highlights. At present, there are not many top-level design guidance documents in our school, and the school's ideas are not mature enough, and are also exploring. Through this study, I think the school level should achieve "seven needs", the school should have atmosphere, the college should have characteristics, the specialty should have characteristics, the curriculum should have brand, the teaching should have style, the teachers should have examples, and the achievements should be solidified. We should give full play to the organization and promotion role of teachers' Party branch. The important promoter of curriculum ideological and political construction is teachers' Party branch, and curriculum ideological and political construction is an effective carrier to strengthen the construction of teachers' Party branch.

(2). Teacher level. Teachers should always learn new

things, constantly improve their understanding, master methods and actively practice. Teachers should understand the significance of the ideological and political construction of the curriculum, which is not limited to a certain course they teach, but all the courses should constitute the main channel of education, so as to implement the fundamental task of moral education and reflect the fundamental direction of education in Colleges and universities. Teachers should explore the breadth and depth of the ideological and political education elements contained in the curriculum, as well as the effectiveness of organic integration into classroom teaching, which is closely related to teachers' own ideological level and professional ability. When learning and practicing, teachers should master the methods, fully grasp the three basic skills of excavating the ideological and political elements of the course, organically integrating into classroom teaching and educating the educators first. General Secretary Xi said at the National Conference on Ideological and political work in Colleges and universities that we should integrate the basic principles of life and work, the requirements of socialism, the ideal and responsibility of national rejuvenation into all kinds of curriculum teaching, so teachers should be able to tap the ideological and political elements. When preparing lessons, we should find out the "three elements". We should not simply and directly borrow the cases provided by others. Teachers should be able to organically integrate ideological and political elements. When giving lectures, we should see where the "three elements" are embodied? To achieve moistening silent, not hard cut, not directly added. Educators should be educated first. In conclusion, teachers should reflect on their understanding of the "three elements"? Where is it reflected?

3. THE IDEOLOGICAL AND POLITICAL EDUCATION SCHEME OF JAVA PROGRAMMING COURSE

3.1. Teaching Objectives

According to the ideological and political objectives of the course, the curriculum standard of Java programming is revised. The key point is to integrate the ideological and political elements into the training process of knowledge and skills objectives, so as to achieve the ideological and political objectives. The ideological and political objectives of this course are to have good it professional ethics, professionalism and professional norms; to have a work style of loving science, seeking truth from facts, being serious, meticulous, punctual and trustworthy; to have a strong ability of self-renewal of knowledge and skills; to have a good team cooperation and innovation ability.

3.2. Teaching Content Level

Java According to the principle of working process

systematization, the curriculum system of program design is constructed. The curriculum is divided into six modules: "Java Language Overview and development environment construction", "Java language foundation", "Object-Oriented Programming", "inheritance and polymorphism", "abstract class and interface" and "exception". The implementation of each module takes "program design" as the carrier and "project development" as the core. With the learning of knowledge, a simple project is gradually supplemented and improved to a complex project, and the value guidance is highlighted in the development. In the process of completing the project, students gradually form the ability to think and solve problems independently, have the spirit of unity and cooperation, and lay a good foundation for future work. For example: from the introduction of Java strict grammar rules to cultivate students' professional quality, rule awareness and ethics. From the introduction of the three control structures of the program to doing things conscientiously and meticulously, every sentence has been carefully considered, and students' spirit of software development craftsman has been cultivated.

4. PRACTICAL EFFECT

In Java In the course of "program design", taking computer science and technology major of level 18, computer information management major of level 19 and big data technology major of level 19 as examples, through online learning performance, classroom performance, homework completion, final exam results, class activities, science and technology competition, daily life of dormitory and other aspects, after the implementation of the course, students' learning is active. The students' participation in various activities has been improved, their mental outlook has been renewed, and the passing rate of examination results has increased by 20%.

5. CONCLUSION

The above is the preliminary exploration results of the teaching design of "Ideological and political course" in Java program development. As General Secretary Xi said, "all courses should be well managed and responsibility fields should be well planted.". Later, we will continue to sort out and excavate the "Ideological and political course" materials combined with the teaching content of computer major, so as to make the professional education and ideological and political education seamless and complement each other. In the process of perceiving "the temperature of education, the height of thought and the depth of politics", our teachers should not forget the original intention, guide the students to integrate patriotism, ambition to strengthen the country and serve the country into the dream journey of the new era, and implement the task of Building Morality and cultivating people.

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