

Integration of computer teaching and ideological and political education in higher vocational colleges

Bo Yang

Xizang Vocational Technical College, Lhasa 850000, Tibet Autonomous Region

Abstract: This paper begins with the necessity of the integration of computer teaching and ideological and political education in higher vocational colleges, and summarizes the paths and practical strategies of the integration of the two in detail, in order to create a new model of ideological and political education of computer courses with characteristics and in line with the requirements of The Times through the study of this paper, and lay a solid foundation for cultivating computer professionals with sound personality and high quality.

Key words: Higher vocational education; Computer teaching; Ideological and political education; Integration strategy

Introduction

The traditional vocational education system divides professional and technical education into two modules, and with the deepening of vocational education reform, the integration of ideological and political education and professional and technical education has been put on the agenda and become an important measure for higher vocational colleges to build a “big ideological and political course” education and teaching system. Even so, in the actual teaching process, the two will still be separated and processed, making the integration effect is not satisfactory. Based on this, how to realize the organic integration of computer teaching and ideological and political education in higher vocational colleges under the background of the new era is the core content of this paper.

The necessity analysis of the integration of computer teaching and ideological and political education in higher vocational colleges

1. The need of cultivating computer students' correct ideas and values

Contemporary vocational college students are in the critical period of ideology formation and value concept establishment, which is closely related to their personal growth, professional development and contribution to the society. Among them, correct ideas and concepts help students to correctly understand the society, position themselves, understand progress, and then form a correct world outlook, outlook on life, and values, which plays a positive guiding role in encouraging students to work hard, forge ahead and serve the society. In particular, students majoring in computer science should understand the ethical issues of technology, and they should treat the development and application of computer technology with correct concepts, which will play a positive role in serving the society in the future and help lead them to grow into professionals useful to the society and the country. In addition, correct values are conducive to guiding students to establish lofty ideals, establish the grand goal of serving the society and contributing to the country, and enhance the inner driving force of self-realization. Especially in the new era of rapidly changing computer technology, students also need to be able to cope with the challenges of complex network environment and information, which is crucial for them to choose the path of scientific and technological innovation that is beneficial to society and human development.

2. The need to cultivate computer science students' sense of social responsibility and citizenship

As future industry leaders and qualified scientific and technological workers, computer students should have a strong sense of social responsibility and civic consciousness. Only in this way can they give full play to their professional and technical advantages and serve the country. On the one hand, infiltrating ideological and political education into the whole process of computer teaching in higher vocational colleges can help students form socially beneficial standards of behavior, understand the possible impact of personal behavior decisions on society, and take this as a benchmark to guide personal professional behavior, and then gradually grow into a citizen with a strong sense of social responsibility. On the other hand, this also helps to enhance the students' civic consciousness, so that they fully realize the importance of abiding by the law and abiding by the rules, and actively maintaining social public interests and information security, so that they can make correct decisions in the professional field, maintain the order and security of the digital world, and provide strong support for future career development.

3. The need to improve the rule of law awareness and moral literacy of computer students

The awareness of rule of law is one of the basic qualities that citizens should have in modern society. Especially for computer students, cultivating them to form a good awareness of rule of law is not only closely related to their personal development, but also conducive to ensuring that their future practice activities are legal and compliant. In addition, under the subtle guidance of teachers, students will truly understand the importance of understanding and abiding by laws and regulations related to computer science such as intellectual property rights, data security and privacy protection, which will help them to act in accordance with the law in their future career and effectively prevent legal risks. Moral literacy is particularly important for students engaged in computer-related work, as it is an important standard to measure their inner character and code of conduct. Cultivating students' good moral literacy is not only the cornerstone of their social recognition and career success, but also helps guide them to adhere to ethical principles in the process of future technological reform, avoid the misuse of technology, and ensure that the achievements of scientific and technological development benefit society.

The effective strategy of the integration of computer teaching and ideological and political education in higher vocational colleges

1. Improve the professional cultivation of teachers

From the moment they enter school, everything a teacher says and does is likely to become an object for students to imitate. From this point of view, if teachers want to set the right example for students, they must take the initiative to develop good habits of behavior, master profound professional knowledge, consolidate professional skills, and enhance ideological and moral levels. Only in this way can they lead students along the right track.

First of all, it is imperative that teachers need to constantly enrich themselves, further refine and deepen professional skills, especially should keep pace with The Times, learn the latest computer technology, which is particularly important in the ever-changing information age. In addition, computer teachers need to synchronously improve their personal ideological and political literacy, constantly absorb advanced theories and theories, and walk with professional knowledge to provide solid theoretical and ideological support for ideological and political education to penetrate into computer teaching. In daily life, teachers should persevere to enhance the study of political theory, but also to seriously accept the party spirit education, so as to ensure that in solving the legal and moral issues related to the Internet field always maintain a correct sense of right and wrong and judgment, in the imperceptible influence and education students, so that they can also form patriotic and party thoughts.

Secondly, in the teaching work, computer teachers should keep pace with the society, constantly innovate the educational concept, must not limit the teaching work to the simple theory teaching behavior in the classroom, but should be combined with a large number of examples inside and outside the school to inspire students to fully realize the importance of adhering to the correct professional quality, at the same time, A series of interdisciplinary practical activities and volunteer activities are carefully designed for students. Only in this way can new people in the computer field be cultivated who have both professional ability and socialist core values. Of course, improving students' interpersonal skills, innovation skills, teamwork skills, solving specific problems and other abilities is also the main content of teachers' professional quality training.

2. Carefully sort out ideological and political elements

Textbooks are the basis of teaching and the main support for students to acquire knowledge. Computer teachers should devote themselves to the study of professional textbooks, especially dig deep and carefully sort out the ideological and political elements contained in the textbooks, on this basis, and closely associate them with the teaching content, so as to lay a solid foundation for ideological and political education into the computer teaching process. In this process, teachers should pay special attention to the ideological changes of students, fully grasp the cognitive level and psychological characteristics of students, and truly explain the excavated ideological and political elements to students from multiple perspectives. As a highly technical subject, the teaching process of computer should not only stay at the level of transmission of theoretical knowledge and ability. In order to improve the effectiveness and effectiveness of teaching, teachers should start from the actual life of students and take the current era as the background to actively adopt case analysis and project-driven methods to improve students' classroom participation. It is not only conducive to improving students' learning efficiency, but also can inspire students to think deeply.

For example, when teaching drawing software or programming software, teachers can guide students to realize that most of the developers of some mainstream software in the current computer industry are from foreign companies. By comparing the differences between domestic and foreign computer industries, they can have a deep understanding of the challenges and opportunities faced by the domestic computer industry in the new era, thus enhancing their sense of crisis and patriotism. Strengthen the students' national pride, encourage them to learn professional knowledge, use knowledge to change their fate in the future, and at the same time, make contributions to the scientific and technological progress of the country and the development of the computer industry. For another example, when explaining the domain name DNS system, teachers can adopt diversified teaching methods such as active explanation, independent exploration, discussion and communication, and hands-on operation to help students deeply understand the meaning of domain name, the corresponding relationship between domain name and IP address, and master the domain name management method and the domain name resolution process, so that they can master the methods to solve practical problems with knowledge. At the same time, combined with the development status of our country's DNS system, guide students to deeply understand the importance and urgency of having and running the root domain name server in our country, so as to enhance students' awareness of network sovereignty and network security, guide students to build China into a network power and strive.

3. Strengthen the introduction of concrete examples

Purely theoretical classes are not only difficult to fully mobilize students' interest in learning, but also may limit the depth of students' understanding of certain knowledge, which is very unfavorable to the integration of ideological and political education. In order to achieve the expected teaching effect, computer teachers can borrow some practical cases to carry out ideological and political education for students, so as to highlight the unique role of computer teaching content in educating people, so that students can listen to the classroom with relish and take the initiative to accept the teacher's influence.

For example, Wang Yongmin and Wang Xuan are outstanding representatives of the computer industry in our country. Through the introduction of the relevant deeds of these two figures, it is not only conducive to highlighting their outstanding achievements in the field of computer technology, but more importantly, it is helpful to enhance the students' patriotism and make them follow the example and forge

ahead in the computer industry. The students of computer major in higher vocational colleges need to understand the “five-stroke type” input method, and the teacher can introduce Mr. Wang Yongmin’s important contribution to the innovation of computer input technology in detail to the students. Before the “five-stroke type” input method has not been successfully developed, many practitioners in the computer industry in our country have been troubled by Chinese character input for a long period of time, which also makes the computer penetration rate in various industries in our country has not been significantly improved. After the successful development and widespread use of the “five-stroke type” input method, the input speed of Chinese characters on the computer has been greatly improved, and even can reach hundreds per minute, which not only greatly improves the popularity of computers in China, but also accelerates the development of computers and related industries in our country. Mr. Wang Yongmin’s invention is not only a technical innovation, but also a direct reflection of the national spirit of self-confidence and self-improvement. For another example, when explaining the use of office software, teachers can also tell the story of Mr. Wang Xuan’s research and development of Huaguang system. Huaguang system is a set of Chinese character laser phototypesetting technology for the typesetting and editing of books and newspapers. The research and development of this technology ended the history of traditional movable type printing in China and led the printing industry to complete the digital and automatic revolution. Huaguang system is hailed as “the second invention of Chinese character printing”. Under the guidance of the teachers, the students fully understand the importance of technology to the computer industry. At the same time, under the influence of good role models, the students’ patriotic enthusiasm is also growing, which helps to cultivate students’ national pride.

4. Organize special educational activities

In order to promote the deep integration of computer education and ideological and political education, teachers can cleverly design special educational activities centering on ideological and political education around computer teaching content, so that students can take the initiative to accept the influence of ideological and political education while learning professional knowledge and skills, so as to help them form correct values, outlook on life and world outlook. Take explaining the content of “computer network security” as an example, teachers can organize students to carry out exchange activities related to national network security and patriotism. In the activities, students can freely express their understanding and cognition of national network security, and actively participate in discussions, so as to enhance their sense of responsibility and self-confidence in safeguarding national security with their professional knowledge. Enhance students’ sense of honor, so that they can form excellent moral character and correct ideas. In addition, the school can also invite local police officers to introduce the main means of current network fraud to students, guide students to go online green, and enhance students’ awareness of network security and prevention.

Epilogue

To sum up, integrating ideological and political education into computer teaching is an important direction of computer teaching reform in the new era, and it is also an inevitable trend for higher vocational colleges to build a new teaching model of ideological and political education and realize the goal of cultivating morality and people. Teachers should carefully sort out ideological and political elements, actively organize colorful themed education activities and innovate teaching methods while improving personal professional quality, so as to cultivate more high-quality computer professionals with all-round development of moral, intellectual, physical, American and labor.

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