

Exploration on the Key Points and Implementation Path of Computer Teaching Reform in Higher Vocational Colleges

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Abstract: In recent years, with the development of education in our country, people attach more and more importance to higher vocational education. As an important part of higher vocational education, computer teaching has trained a large number of professional talents for the development of social economy in our country. However, with the rapid development of social economy in our country, people's requirements for computer professionals have become higher and higher. Therefore, the traditional computer teaching mode in higher vocational colleges can no longer meet the needs of social development. Besides, the reform of computer teaching has become an important part of the work of higher vocational colleges. This paper analyses the key points of computer teaching reform in higher vocational colleges and explores the implementation path, hoping to be helpful to computer teaching reform in higher vocational colleges.

1. Introduction

With the rapid development of China's social economy, the market competition is becoming increasingly fierce. In recent years, the number of undergraduate graduates has been increasing with the continuous enrollment expansion of colleges and universities in China, which has brought greater employment pressure to the graduates of higher vocational colleges. Therefore, in order to alleviate the employment pressure of graduates from higher vocational college and cultivate more excellent professional talents, higher vocational colleges are required to strengthen the reform of education methods. As far as computer teaching is concerned, higher vocational colleges should constantly reform the traditional computer teaching methods according to the development trend of social economy in China and the actual needs of relevant enterprises and institutions, so as to cultivate more talents with professional quality who are able to meet the needs of social and economic development in China and are more suitable for the excellent talents of relevant enterprises and institutions, and further lays a solid foundation for the successful employment of graduates of higher vocational colleges.

2. Key Points of Computer Teaching Reform

2.1 Higher Vocational Colleges should Change Teaching Methods

In the process of computer teaching in higher vocational colleges, the teaching concept is relatively backward which turns to be the main problem. This relatively backward teaching concept will lead to the backward method of computer teaching. Computer teaching is mainly divided into two parts. One refers to the teaching of theoretical knowledge, and the other is practical teaching. This kind of teaching method which combines theoretical knowledge with practical teaching seems reasonable, but in the actual teaching process, there will often be a situation that lays particular stress on theoretical knowledge teaching but does not pay enough attention to practical teaching, which results into the disconnection between the knowledge learned by students and practice, as well as students' incapability of verifying the theoretical knowledge learned in the process of practice. This brings a very negative impact to students and they will not be able to meet the needs of relevant business units in the future work, thereby affecting their employment rate. In addition, with the rapid development of science and technology, the update speed of computer technology is

accelerating. If higher vocational colleges still adopt traditional teaching methods and teaching content, students' knowledge will be out of touch with the times and they will be unable to grasp the latest and most advanced computer knowledge. It is also difficult for students to stimulate learning interest when facing old computer knowledge, which will make the quality of students' learning decline, thus affecting the improvement of students' computer level and further widening the distance between students' computer level and social needs. Moreover, students will face more difficulties in entering society and working. Therefore, in the process of computer teaching in higher vocational colleges, it is required to strengthen cooperation and communication with enterprises, make full use of the resources of enterprises to improve teaching methods and actively organize students to go deep into the front line of enterprises to carry out relevant practical activities, so that students will be able to apply their theoretical knowledge of computer to practical practice, verify the knowledge they have learned, discover their own deficiencies in the learning process and then can carry out more targeted learning. In addition, students are capable of deepening their understanding and impression of theoretical knowledge they have learned and their future employment orientation through their practice in the front line of enterprises, which will effectively stimulate students' enthusiasm for learning, so that they can be more active in the study of computer knowledge. Higher vocational colleges can also cooperate with enterprises to establish off-campus practice teaching bases, in which students can be allowed to undertake some relatively simple tasks for enterprises, such as simple software programming, software testing and program maintenance. In this way, it can not only increase the economic benefits of enterprises, but also increase the opportunities for students to practice, through which, students can better grasp relevant theoretical knowledge.

2.2 Teaching Environment is Poor with Imperfect Teaching Equipment

Influenced by traditional teaching concepts and college-running funds, there are many problems in Higher Vocational Colleges in China, such as poor teaching environment and imperfect teaching equipment. The existence of these problems will greatly affect the reform of computer teaching. With the rapid development of computer technology, the update speed of computer technology and computer equipment is accelerating. If higher vocational colleges still adopt the traditional and outdated computer equipment, they will no longer can meet the needs of modern social development. If higher vocational colleges fail to update the software and hardware equipment related to computer teaching, they will be unable to effectively improve teaching quality and teaching efficiency. At the same time, the rapid development of computing technology also puts forward higher requirements for computer teaching equipment. However, at present, some vocational colleges in China still apply old teaching equipment many years ago while more advanced computer software is difficult to run in such old equipment, which makes students unable to use these teaching equipment for practical activities and seriously affects the improvement of computer teaching quality. Besides, factors affecting the renewal of computer teaching equipment in higher vocational colleges also include the professional quality of equipment purchasing personnel, who often do not have professional computer knowledge or comprehensive understanding of computers, nor a systematic grasp of the application requirements of various hardware and software, which will lead to the incompatibility of equipment purchased, such as a lack of matching software or hardware equipment for advanced hardware equipment or the failure of software equipment to meet the needs of advanced software. This will also affect the learning effect of students to a large extent or even cause a huge waste of teaching resources, so that the limited educational funds can not be effectively applied, aggravating the backward situation of equipment in higher vocational colleges.

2.3 Quality of Teachers in Higher Vocational Colleges is not High

In order to improve the quality of computer teaching in Higher Vocational colleges, it is required to pay attention to improving teachers' professional quality and technical level. In Han Yu's *Shishuo*, it is mentioned that "ancient scholars must have teachers and teachers preach and teach to solve doubts". If teachers do not have high professional quality or technical level, it is impossible to

improve the quality of teaching. At present, one of the important reasons that affect the improvement of computer teaching quality in higher vocational colleges in China is that the professional quality of teachers themselves is not high, and there is still a certain gap compared with the level of teachers in key universities. In addition, teachers' own sense of responsibility, teaching methods, teaching concepts and scientific research level will also lead to their inability to provide effective guidance to students, producing a certain impact on the quality of computer teaching. Therefore, in higher vocational colleges, teachers' low level of overall quality, poor teaching environment and teaching equipment, backward teaching methods and other factors affect the improvement of teaching quality in higher vocational colleges and are also the focus of computer teaching reform.

3. Implementation Path of Computer Teaching Reform in Higher Vocational Education

3.1 Implement Computer Teaching Reform with Employment Orientation

Computational teaching in higher vocational colleges aims to cultivate more excellent professional talents for the development of social economy. Therefore, in the teaching process, higher vocational colleges should fully understand the social and economic development trend of our country and the actual needs of enterprises and institutions, based on which, higher vocational colleges carry out computer teaching reform. Only by carrying out teaching activities according to the development trend of social economy and the actual needs of enterprises and institutions can we cultivate outstanding talents in line with social development and effectively solve the employment problem of graduates from higher vocational colleges. In the actual process of computer teaching reform, higher vocational colleges are required to fully grasp their own advantages and characteristics, and make clear their own development direction and social orientation^[1]. Compared with comprehensive universities, higher vocational colleges focus on the training of high-tech and professional talents. Therefore, the computer teaching reform in higher vocational colleges should give full play to its own advantages and characteristics, take employment as the orientation, take technology and application as the starting point, and make reasonable teaching plans according to the development trend of social economy and the actual needs of enterprises and institutions, so as to realize the organic combination of students' future job demand and professional demand with computer teaching reform in higher vocational colleges, cultivate practical talents, and help students to be skilled in the application of computer technology and successfully accomplish their work tasks after they embark on the job. In addition, higher vocational colleges also need to carry out targeted reforms in computer teaching according to different economic development conditions and different industry needs of different regions, and then train comprehensive talents who understand computer technology, craft, management and operation, so that students can quickly invest in their work after entering the post as well as make outstanding contributions to the social and economic development of our country.

3.2 Increase Investment to Create a Good Teaching Environment

In order to improve the teaching environment of higher vocational colleges and enhance the computer teaching level and teaching quality, higher vocational colleges are supposed to increase investment to create a good teaching environment for students. Good teaching environment mainly includes hardware environment and software environment. By increasing investment, we can make up for the shortcomings of hardware environment and software environment, and further lay a solid foundation for improving the quality of computer teaching. To strengthen the construction of hardware environment, it is necessary for higher vocational colleges to constantly improve multimedia teaching equipment and various teaching facilities in the computer rooms, so as to provide a good learning and teaching environment and equipment basis for students' learning activities and teachers' teaching activities, and effectively improve the quality and efficiency of students' learning and teachers' teaching. Strengthening the construction of software environment refers to the application of various advanced teaching software and the combination with computer

hardware equipment, so as to realize the informationization of computer teaching and make students learn in a good environment.

3.3 Strengthen the Construction of Teachers

The professional quality and technical level of teachers will directly affect the quality of education. Computer teaching in higher vocational colleges is no exception. Therefore, higher vocational colleges should pay attention to the construction of teaching staff and constantly innovate the training method, so as to improve the quality of computer teaching and promote the development of higher vocational colleges. Strengthening the construction of teaching staff can not only highlight the characteristics of higher vocational colleges, but also make them invincible in the fierce competitive environment. Higher vocational colleges should constantly adjust their own teaching policies to meet the needs of computer teaching reform and constantly strengthen the construction of teaching staff. In the process of the construction of teaching staff, higher vocational colleges are required to carry out extensive exchanges of computer teachers' teaching methods, constantly learn advanced computer teaching experience from other colleges, and help teachers improve their own teaching ideas and teaching methods. Meanwhile, higher vocational colleges should also establish and improve the normal training system of computer teachers. Because of the rapid development and rapid change of computer technology, teachers need to learn constantly in order to master the latest and most advanced computer technology, so as to better serve teaching.

4. Conclusion

To sum up, the reform of computer teaching in higher vocational colleges is not only needed by social and economic development, but also an important measure to improve the quality of computer teaching in higher vocational colleges. Therefore, higher vocational colleges are required to pay more attention to the reform of computer teaching, actively take effective measures to promote the reform of computer teaching, and then improve the quality of teaching, so as to cultivate more comprehensive and excellent talents for the development of social economy in China.

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