Research on the Teaching Reform of Computer Network Course in the Era of Big Data

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Abstract: In the era of big data, the computer network courses in China need to make great changes. One of the core contents is to adapt to the development of the current era as much as possible, which is very important for the development of the computer industry in China. The main reason is that the computer network changes with each passing day, almost every day there will be new changes, so higher vocational colleges should keep pace with the times, otherwise the talents cultivated are relatively backward. This is very detrimental to the future development of students, and many students will not be able to enter the company to work effectively and have to make career changes. For such situations, the most effective way is to carry out corresponding reforms in the era of big data. This article starts from the new requirements of computer network courses in higher vocational education in the era of big data, and launches a comprehensive study on the reform of computer network courses in higher vocational education.

1. Introduction

The teaching of computer network major courses in higher vocational colleges is an important teaching task for higher vocational colleges. In addition to their own professional staff, some other professional people also need to have an understanding of this content in order to ensure that there are no problem. However, for a long time, the problems in the teaching of computer network major courses in China are relatively obvious, mainly in the teaching of computer network major courses in higher vocational colleges, whose content is relatively old. Although the teaching materials appeared in a short time, the development of computer network is too rapid, a few years ago, all kinds of content. Nowadays, the Internet is no longer practical, so the teaching of computer network courses in Higher Vocational Colleges in China also needs to make corresponding changes to ensure that there are no problems. In this case, it is necessary for the teaching of computer network course in higher vocational education to be able to make changes in accordance with the needs of the big data era, as follows:

2. New Requirements for the Teaching of Computer Network Course in Higher Vocational Education in the Era of Big Data

2.1 In the Era of Big Data, There is a New Requirement of Emphasizing Practical Ability in the Teaching of Computer Network Major in Higher Vocational Education

In the era of big data, its main feature is that people are required to have their own ability to work independently. This is mainly because the Internet network changes all the time. If there are problems with their own ability, they will not be able to effectively face these changes. At present, the teaching of computer network specialty courses in higher vocational education should emphasize students' practical ability. It is the key to the current teaching reform of computer network specialty courses in higher vocational colleges that students can continuously strengthen themselves according to their abilities.

2.2 In the Era of Big Data, There Are New Requirements for Content Updating in Higher Vocational Computer Network Courses.

For the teaching of computer network specialty courses in higher vocational education, its own teaching materials have not met the needs of the current era. Mainly, the teaching of computer network major courses in higher vocational colleges uses the traditional textbook development plan, and the content is still open after repeated review. This leads to a lot of times, the computer network professional course teaching content has become obsolete, these outdated content can not effectively improve the ability of students.

3. Problems Existing in the Teaching Reform of Computer Network Course in the Era of Big Data

3.1 There Are Some Problems in the Teaching Reform of Computer Network Course in the Age of Big Data

For a long time, in the teaching of computer network major in higher vocational colleges, we all think that our teaching goal should be to strengthen students' computer network ability as much as possible. But in fact, there are a lot of content division in the related work of computer network, which directly leads to the comprehensive ability of learning in the course of computer network major in higher vocational education. It can only be used as the basis for every job, and is not directly suitable for any job. Many students have not been able to work in any kind of Internet network after studying the teaching of computer network majors in higher vocational colleges. They can only work in corresponding positions by studying the follow-up content according to the needs of the enterprise. This directly leads to the fact that the teaching content of higher vocational computer network major courses played by many students is not obvious.

3.2 The Problem of Lagging Content in the Teaching Reform of Higher Vocational Computer Network Majors in the Era of Big Data

In the teaching of computer network specialty courses in higher vocational education in our country, we still pay attention to the traditional textbook auditing system. The essence of this auditing system is rigorous, but it is also too rigorous. As a result, many of the contents in the teaching of computer network majors in higher vocational colleges have just passed the review and have become outdated. Therefore, this auditing system is against the changing style of the Internet, and the teaching content of the computer network course in Higher Vocational Colleges in China is lagging behind. As a result, many students' learning content will not be applicable in the future work and life. Therefore, the teaching content of computer network course in higher vocational education needs to make a comprehensive reform to ensure that it does not have any problems.

3.3 The Problem of Insufficient Practice in the Teaching Reform of Computer Network Specialty in the Era of Big Data

At present, there is no practical course in the teaching of computer network major in Higher Vocational Education in China. The main reason is that in the teaching of computer network major in higher vocational education, the main teaching contents of teachers are put on the theoretical content. But does not emphasize the student's practice, causes many students in the study process, also all emphasized on the theory knowledge content. When students need to carry out the corresponding work, there are often problems in the teaching of computer network major courses in higher vocational colleges. As a result, students' personal abilities are insufficient, and it is difficult to fully cope with problems that may arise in the future. In particular, the inability to effectively complete the tasks of corporate accountability has led many students to learn about computer network major courses in higher vocational colleges, but they are very lacking in ability and basically cannot meet the needs of daily work.

3.4 Problems in the Teaching Reform of Computer Network Courses in Higher Vocational Education in the Era of Big Data

In the era of big data, the requirements for teachers of higher vocational computer network courses have gradually increased. This directly leads to the failure of some teachers to meet the teaching needs of computer network specialty courses in higher vocational colleges, which leads to poor student learning results. The reason for this is that the teaching teachers of computer network majors in higher vocational education in China are purely theoretical talents. For the current society of the Internet related content understanding is not in place, many teachers even in the actual operation process, the ability is very lacking, can not meet the needs of teaching. Moreover, teachers in China generally do not have the concept of personal ability improvement, which directly leads to the consistent ability of teachers without comprehensive upgrading, which leads to the problem of insufficient ability.

4. The Solution to the Teaching Reform of Computer Network Course in the Era of Big Data

4.1 In the Era of Big Data, the Teaching Reform of Computer Network Major in Higher Vocational Education Should Make Goals According to Needs

In order to reform the teaching of computer network course in higher vocational education, the most important requirement is to let the teaching of computer network course play a real role. One of the main methods is to change the goal, so that the goal of education and teaching can meet the actual needs. There are two main approaches: the first is to define the direction of free profession. In the teaching of computer network course in higher vocational colleges, the main contents are all completely basic, which does not meet the needs of the current era. Therefore, the teaching goal of computer network course in higher vocational education should make a basic adjustment. It mainly classifies the basic teaching content of computer network major in Higher Vocational Education in detail. What knowledge content is needed for each kind of work becomes the content of the course. In this way, the actual content required for complete work is formed, and the content of student learning is no longer a completely basic content, but has a certain pertinence and can show the specific content of work very well. So that students can fully understand the corresponding content in the process of education and teaching, so as to ensure that students can better complete their studies. The second is to form a system of school-enterprise cooperation, allowing enterprises to put forward corresponding requirements for schools. At present, school-enterprise cooperation has become a very common phenomenon. In this case, the core of the school-enterprise cooperation system is to be able to cultivate the talents required by the enterprise. So at present, the best way is to make the teaching goals of computer network specialty courses in higher vocational colleges meet the needs of enterprises. This is a good goal and the target of market demand.

4.2 In the Big Data Era, the Teaching Reform of Computer Network Specialty in Higher Vocational Colleges Should Be Based on the Requirements

At present, the biggest problem in the teaching of computer network specialty in higher vocational colleges in China is that the content is too consistent. In essence, not every student's whereabouts after graduation are exactly the same, so the teaching of computer network specialty courses in higher vocational education should be used as a basic teaching. To have their own extension direction, they can better extend more professional content, these professional content are more refined, and can directly show the core content of some specialties. In this case, the teaching content of computer network course in higher vocational education needs to be drawn up according to the actual needs, which mainly includes the following two aspects: the first aspect is the emergence of refined content. At present, in the teaching of computer network course in higher vocational colleges, the content is relatively rough, or the content is relatively basic, not specifically related to the content of a certain industry, which directly leads to the content of the corresponding problems. The content that the student learns, can't show relevant professional ability effectively at all, also brought certain difficulty to the student's future employment. The second aspect is that the

teaching content of computer network specialty in higher vocational education needs to be customized according to the needs of enterprises. Different enterprises have different requirements for the teaching content of computer network specialty in higher vocational education. The ultimate training purpose of the school is to provide better talents for the enterprise, so in this case, the teaching content of the computer network course in higher vocational college should be formulated according to the needs of the enterprise, which can ensure that the trained talents meet the needs of the enterprise.

4.3 In the Era of Big Data, the Teaching Reform of Computer Network Specialty in Higher Vocational Education Should Be Carried out According to the Needs

At present, no practice has become a serious problem in the teaching of computer network major in higher vocational colleges. This directly leads to many students in our country although they have carried out the computer network professional course teaching, but their ability is not enough to support students to complete the corresponding work, thus causing the corresponding problems. In this case, the teaching practice of computer network specialty in higher vocational education should start from two aspects: the first is to do a good job in school practice. Most of the school's learning time is still in the school, so the school should carry out full practice in the time that students need. This requires the school to be able to carry out the construction of practice base around the computer network professional course teaching in higher vocational colleges. Students can fully verify the content of the computer network professional course teaching in Higher Vocational Colleges in the practice base. So that we can understand the core content of computer network course teaching in higher vocational education, and better carry out the corresponding learning. For most students, this is very critical and can directly improve their ability. The second part is on-the-job internships based on school-enterprise cooperation. This is mainly because relevant companies can directly provide students with corresponding internship positions, and because they are specialized training. Therefore, students are likely to be in their own jobs in the future, and there will be no job changes. Therefore, the on-the-job internship of the students is actually in the enterprise, but they have not assumed much responsibility, thus ensuring the basic interests of the students. This is crucial for the future growth of students.

4.4 In the Era of Big Data, the Teaching Reform of Higher Vocational Computer Network Courses Should Be Expanded According to Demand

In the teaching of computer network specialty courses in higher vocational schools, if you want to ensure the full expansion of the teaching staff, the main methods can generally be divided into two: the first is the training of teachers. This is one of the key contents. The main reason is that the school should organize the current teachers to carry out corresponding training. During the training process, the teachers' ability examinations, and the representative ability that passed the examination can meet the needs of the current era, and the representative training effect is good. If the test fails, it means that the ability is insufficient. Generally, the relevant personnel should be retrained and then the assessment will continue. After failing the three assessments, they must be cleared because their ability is no longer suitable for the needs of the current school, it is difficult to complete the teaching of the students, and they cannot meet the learning needs of the students. Therefore, these teachers with insufficient ability should be dealt with in this way. This is the best way to eliminate redundant personnel. The second is the recruitment of teachers. In view of the situation of teachers' layoff, we need to supplement talents, so we need to recruit corresponding talents. Among them, the conventional recruitment method can greatly expand the talent reserve and let more people join in the education and teaching. On the other hand, for some talents with outstanding ability, it needs to adopt the method of headhunting recruitment. This is mainly because schools need to establish school characteristics in a certain aspect, mainly relying on this characteristic of teaching, to improve the visibility of the school as much as possible. Therefore, in this case, it is very important to use higher treatment to attract talents.

5. Conclusion

To sum up, there are obvious problems in the teaching of computer network course in higher vocational colleges. This is not the problem of the computer network course teaching itself, but because of the rapid development of the computer network, the teaching content of the computer network course can not keep up with the trend of the times. Therefore, the current teaching of computer network majors in higher vocational education in China is actively seeking change, hoping to further strengthen the content from the characteristics of the big data era. From learning content to learning technology, stressing the independent growth of students can ensure that their ability meets the needs of the current era.

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