Research on the Application of New Teaching in Computer Network Teaching

Meixia Chen*1

1School of Finance and Public Administration, Yunnan University of Finance and Economics

*Corresponding author e-mail:344357777@ynufe.edu.cn

Abstract. At this stage, under the influence of the epidemic situation, the mode of network teaching has become the main topic of concern in the education field. In general, the teaching of computer network should not only reflect the interaction between teachers and students effectively, but also provide some simple and convenient interactive ways. In order to get closer to this ideal goal, some experts put forward the new teaching mode of network teaching[1]. At the same time, people also hope that this mode can promote the renewal of the training policy of computer network teaching. Based on the research of network teaching, this paper also mentions the relevant application methods of new teaching. I hope to provide some help to educators.

Keywords: Network, New Teaching, Application

1. Introduction

According to the basic form of today's society, I think the task of education is to cultivate high-level comprehensive talents with innovative spirit and super practical ability. In today's era of knowledge supporting economy, only with innovative consciousness and innovative practical ability can we help the construction of socialist modernization. We know that the development of knowledge economy mainly depends on the ability level of people who master knowledge[2]. The level and quality of a man depends on his education. Therefore, the basis of high-quality innovative talents is good teaching means. The innovation of educational means can also help to cultivate applied talents. Recently, the research progress on the application of network teaching in new teaching is broad. The emergence of new teaching for the current stage of information-based teaching help is doubled.

The new teaching emphasizes the combination of knowledge teaching with computer means and practice teaching with obsolete means to conduct proper knowledge transmission. This is also the ideal application goal of researchers. However, many people are not optimistic about the combination of network teaching and new teaching. On the contrary, they think that students can not control their own autonomous learning in the network teaching situation. If the new teaching is added, the lack of self-control will become more and more serious. The cycle can only create a vicious circle. We cannot directly confirm the authenticity and reliability of this information. However, we can analyze whether the use of new teaching can enhance the advantages of network teaching.
2. Main problems in the implementation of computer network teaching

2.1. The teaching method is single
In the early stage of the emergence of network teaching, we have always thought that the future education will be computer teaching to master the power. However, with the gradual popularization and use of network learning, we find that its effect is not perfect. Although there are many famous teachers and their teaching methods, the online teaching method is single. It is just a process of mental activity for students facing the computer.

2.2. The teaching mode of online teachers is single
At present, many teaching workers lack enthusiasm and passion. Of course, this is also a manifestation of laziness. According to the survey, many students in class found that the online teacher is only rigid in accordance with the PPT content reading and understanding. They ignore students' knowledge and other learning situations. Therefore, the teaching mode of most online teachers is single, boring and even disgusted by students.

2.3. Lack of interaction between teachers and students
Many parents have found that their children in the online class is not able to lift the spirit and concentration. Perhaps in a way, this is the students themselves appear tired of learning behavior. However, on the other hand, it is also the result of the lack of interaction between teachers and students. Due to the lack of active atmosphere in ordinary classroom and emotional communication between teachers and students, it is difficult for students to integrate into the online class atmosphere and enter the best learning state.

Figure 1. Curriculum from the practical perspective of new teaching.

3. Analysis of the application of new teaching in computer network teaching

3.1. Reasonable arrangement of students' teaching methods
The use of new teaching techniques is not very complicated. It's not very simple either. Compared with online teaching, it pays more attention to students' knowledge and practical ability. Therefore, in the use of new teaching, educators need to arrange students' teaching methods reasonably. We can combine the knowledge and practice of the new teaching method to arrange the network class and practice course properly.

3.2. Emphasis on new practical courses
Practice course not only refers to students' extracurricular practice, but also refers to students' Extracurricular self review of knowledge. Teachers should pay attention to the modular review and resource arrangement of students' knowledge when arranging practical courses. We can arrange different ways to consult extracurricular materials and propose topics that can help students to practice independently. These methods are the important embodiment of the new teaching mode.
Table 1. Survey on the popularization rate based on various teaching modes.

| Types of Education                                      | Popularity |
|---------------------------------------------------------|------------|
| Old classroom teaching                                  | 95%        |
| Online teaching                                         | 89%        |
| New teaching                                            | 72%        |
| The combination of new teaching and online teaching     | 63%        |
| The combination of old teaching and online teaching     | 75%        |

3.3. The combination of online teaching and classroom teaching
Although there are many shortcomings in online teaching, we can not deny the advantages and importance of online teaching. Besides, I don't recommend abandoning classroom teaching. After the discovery of the researchers, they think that online teaching and classroom teaching can complement each other in the teaching mode. The combination of online teaching and classroom teaching is also one of the new teaching methods.

4. Application steps of new teaching in computer network teaching

4.1. Preliminary preparation and consultation
The implementation of every education plan is phased. In the process of the implementation of the new teaching, we should first do a good job in the preparatory work. This can ensure that the new teaching in the later stage of the perfect. The preparatory work in the early stage is to adjust the class time and arrange the course content. At the same time, educators can also consult more practical courses on the establishment of online courses mode and skills.

4.2. Receive feedback from students in trial operation stage
Education means must be student-centered in order to accurately implement. The trial operation of new teaching is a specific process of teaching\(^5\). Therefore, we need to make use of some students to form experimental classes of new teaching. During the trial operation period, we should timely carry out reasonable training for teachers and receive feedback from students. This can better help the implementation of new network teaching.

4.3. Adjustment of curriculum content in mature stage
After entering the mature stage, students receiving new teaching may show different learning attitudes. We can not guarantee that every student's learning state is perfect. What we can be sure is that through the adjustment of the course content, the new teaching will cultivate high-level experimental class students for us. These students will serve as role models in the field of teaching.

5. The importance of the application of new teaching in computer network teaching

5.1. It can allay the concerns of parents
During the online class, many parents find that their children can't concentrate during the online class. Parents are worried about the quality of their students' learning. They think that such a situation is not conducive to students' learning. The use of new teaching can solve this problem. It can help to improve students' learning enthusiasm. This can allay parents' concerns.

5.2. It can improve teachers' working enthusiasm
Many online teachers are lack of enthusiasm. In the process of class, they just explain in order according to the content of the courseware. This is not the right behavior. New teaching will exercise the teachers' new teaching methods and skills. In a way, it can improve their motivation.

5.3. The combination of online teaching and practice makes students' knowledge storage more solid
Knowledge learning needs constant repetition. Repeated memory can form permanent memory\[^6\]. Only the simple theoretical discussion of online class can not provide students with knowledge. Extracurricular practice on learning content can help students better memorize knowledge.

6. Conclusion

The emergence of online courses can help us to study anytime, anywhere. Although its shortcomings are gradually emerging, its convenience and universality is worth our use of new teaching methods to improve its performance.

References

[1] Xiang-Jun X U . Research on the Network Simulation Software in the Application of Computer Network Engineering Practice Teaching [J]. Modern Computer, 2016.

[2] Dan S , Hong-Hui N . Research on Public Experimental Teaching in Computer Application Course Reform [J]. Journal of Anyang Normal University, 2010.

[3] Xiong Z G , Zhang X M , Xie Y , et al. Notice of RetractionResearch on teaching reform of theory and application for computer network course [C]// International Conference on E-health Networking. IEEE, 2010.

[4] Dan H , Jicheng K . Research on the Application of Visualization-based Teaching in the Course of Computer Network Foundation [J]. China Computer & Communication, 2019.

[5] Xiaoxuan, Huang, Jun, et al. Research on the Application of Computer Animation Technology in the Arrangement and Teaching of Rhythmic Gymnastics [C]// 2018.

[6] Hao W . Research on the Application of Virtual Reality Technology in Specialized English Teaching [C]// 0.